

# Input-Output Structure of the U.S. Economy: 1963

The results of the 1963 input-output study by OBE are published in this report. The outstanding feature of this second full-scale study by OBE of U.S. interindustry relationships is the greatly expanded industrial detail in which the data have been prepared—almost 370 industries as compared with 88 industries for the 1958 table. Because of space limitations and to provide comparable data, the 1963 industry categories in this article have been aggregated to the categories provided for 1958. Instructions for obtaining the full detail for 1963 appear on this page.

THE results of the Office of Business Economics' study of input-output relationships for 1963 are presented in this article. This study was conducted as part of OBE's continuing program for the development of input-output tables integrated with the national economic accounts.

The 1963 data were developed as part of the second full-scale input-output study by OBE, the first having covered the year 1958.<sup>1</sup> This article shows the 1963 estimates in the industry classification used for the 1958 table. However, the underlying detail has been greatly expanded. For 1963, estimates were prepared for about 370 separate industries, more than four times as many as in the 1958 study. The expansion in industry detail was strongly urged by a broad cross section

of users who were interested in pinpointing the industrial markets and repercussions of changes in these markets to a greater degree than was possible with the 1958 data.

A list showing the industry classifications used in the more detailed table appears on pages 26–29. The input-output data for these industries are shown in *Input-Output Structure of the U.S. Economy: 1963; Volume 1, Transactions Data for Detailed Industries; Volume 2, Direct Requirements for Detailed Industries; and Volume 3, Total Requirements for Detailed Industries*. These volumes may be purchased from the U.S. Government Printing Office, Washington, D.C. 20402.

With the completion of the 1963 input-output study, information on the technical structure of the Nation's industries is now available for 1963 as well as for 1947 and 1958. The 1947 table was originally prepared by the Bureau of Labor Statistics of the U.S. Department of Labor and was subsequently made consistent with the OBE

tables. The adjusted 1947 table may be obtained from OBE. The availability of comparable tables for a substantial span of time will greatly facilitate the investigation of changes in the technical structure of the U.S. economy.

## Input-output and the national income and product account

The input-output tables are prepared as an integral part of the U.S. national economic accounts. The three charts on pages 17–19 show how the input-output account is related to the basic national income and product account.

The national income and product account is presented in chart 10. The output of the Nation is shown both in terms of final product flows and in terms of the income types generated in its production. The final product flows appear in the right-hand column of the chart. They consist of sales to consumers (personal consumption expenditures), sales to business on capital account and the change in business inventories (gross private domestic in-

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1. The 1958 table was updated to 1961 in *Input-Output Transactions: 1961*, Staff Working Paper in Economics and Statistics, No. 16, OBE, U.S. Department of Commerce, 1968. The following articles on the 1958 input-output study have appeared in the *Survey of Current Business*: Morris R. Goldman, Martin L. Marmont, and Beatrice N. Vacca, "The Interindustry Structure of the United States," November 1964; Norman Frumkin, "Construction Activity in the 1958 Input-Output Study," May 1965; "The Transactions Table of the 1958 Input-Output Study and Related Direct and Total Requirements Data," September 1965; Nancy W. Simon, "Personal Consumption Expenditures in the 1958 Input-Output Study," October 1965; "Additional Industry Detail for the 1958 Input-Output Study," April 1966.

vestment), sales to government (government purchases of goods and services), and net sales to foreigners (net exports). The sum of these final product flows equals the gross national product (GNP). This same total can also be derived by summing the income types (referred to in the article as value added) shown in the left-hand column. These consist of employee compensation, proprietors' income, rental income, corporate profits, net interest, business transfer payments, indirect business taxes, current surplus of government enterprises less subsidies, and capital consumption allowances.

Chart 11 displays the same components of GNP as shown in chart 10, but they are rearranged in an input-output format—a matrix or a table containing data arranged in rows and columns. The row labeled "producers," shows the sales of these producers to the same final markets which appear in the right-hand column of the first chart. The column headed "producers," enumerates the income types which make up the gross national product—which are now grouped as payments to employees, to owners of business and capital, and to government. The sum of this column, like the sum of the row, is equal to the GNP.

The black box, which represents sales by producers to other producers of the goods and services used in production, is blank in chart 11. These producer-to-producer sales are already included in the value of the final products that add up to the total GNP. Accordingly, they are omitted to avoid duplication in the measurement of national output.

For input-output analysis, however, these sales by producers to producers must be separately measured because this analysis focuses on the way the industries of the Nation interact in producing the gross national product. These sales are revealed in chart 12, which is an extension of chart 11. Again, the sales by producers to the final markets are shown as well as income payments by producers. However, the previously empty black box has been expanded into a large shaded area with many boxes to display separately the industries producing (as well as consuming) raw materials,

semi-finished products, and intermediate services.

These industry-to-industry flows depict the input-output structure of the economy. For example, the manufacturing row shows the sales by manufacturing industries to each of their industrial customers as well as to the final markets; the column for manufacturing shows the industrial sources of the goods and services purchased by manufacturers for use in production, and also the value added by manufacturers.

Because the interindustry account is conceptually and statistically integrated with the national income and product account, the value of total GNP as well as of the flows to each of the final markets (personal consumption, gross private domestic investment, government purchases, and net exports) is the same in the two sets of accounts.<sup>2</sup> However, the breakdown of the flows differs in the two accounts. In the interindustry ac-

count, the final demand columns are classified by industry. For the national income account, other types of breakdown are shown.

Value added is shown component by component in the national income and product account. In the input-output table presented in this article the components are combined into "value added" totals. Although the sum of value added for all industries is identical in the two accounts, the industrial distribution of value added differs from that of the national income and product account. The components of value added and an explanation and reconciliation of the industrial differences will be included in a subsequent article.

#### *Uses of input-output*

Input-output analysis has a variety of applications including such diverse uses as evaluating the sales potential of an individual firm and probing the implications of broad economic programs.

The major contribution of input-output analysis is that it permits measurement of the industrial repercussion of changes in demand. The measurement of these repercussions can be illustrated by the following

CHART 10

### THE GROSS NATIONAL PRODUCT National Income and Product Account

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Compensation of employees</li> <li>2. Proprietors' income</li> <li>3. Rental income of persons</li> <li>4. Corporate profits and inventory valuation adjustment</li> <li>5. Net interest</li> <li>6. Business transfer payments</li> <li>7. Indirect business tax and nontax liability</li> <li>8. Less: Subsidies less current surplus of government enterprises</li> <li>9. Capital consumption allowances</li> </ol> | <ol style="list-style-type: none"> <li>10. Personal consumption expenditures</li> <li>11. Gross private domestic investment</li> <li>12. Net export of goods and services</li> <li>13. Government purchases of goods and services</li> </ol> |
|---|--|

#### GROSS NATIONAL PRODUCT

#### GROSS NATIONAL PRODUCT

## SURVEY OF CURRENT BUSINESS

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example which deals with an increase in consumer demand for passenger cars. This increase in demand will lead in the first instance to an increase in the output of the automobile industry. However, there will be further impacts. The increase in the output of the automobile industry will result in more steel production, which in turn will require more chemicals, more iron ore, more limestone, and more coal. The automobile industry will also demand more upholstery fabrics, and the increased production of these fabrics will require more natural fibers, more synthetic fibers, and more plastics. There will be even further reactions; for instance, the production of synthetic fibers and other chemicals will lead to the production of more electricity and containers.

These are only a few of the industrial repercussions resulting from the initial change in consumer demand for automobiles. Input-output analysis traces this intricate chain reaction throughout the entire industrial structure and measures the effects of all the demands, both direct and indirect, on the output of each of the industries.

The industry outputs derived in this way can be used for estimating related industry requirements. For example, with supplementary data, the estimated output of each industry can be translated into requirements for employment or for additional plant and equipment.

Supplemented by information on the geographic distribution of industries, input-output analysis can also shed light on the regional implications of changes in the Nation's GNP.

Input-output is also useful in cost/price analysis. The input-output relationships shown in the table provide information on the cost/price structure of each industry and permit the measurement of the direct and indirect impact on all industries of changes in the prices occurring in any given industry.

Recognizing input-output's unique ability to account completely for the complex interaction among industries, many businesses have been guided in their decision-making by this type of analysis. For example, input-output has been used to evaluate market prospects for established products, to identify potential markets for new products, to spot prospective shortages in supplies, to add new dimensions and greater depth to the analysis of the economic

CHART 11

### THE GROSS NATIONAL PRODUCT In Input-Output Format

	PRODUCERS	PERSONS	INVESTORS	FOREIGNERS	GOVERNMENT	
PRODUCERS		Personal consumption expenditures item 10	Gross private domestic investment item 11	Net exports of goods and services item 12	Government purchases of goods and services item 13	Gross national product
EMPLOYEES	Employee compensation item 1					
OWNERS OF BUSINESS AND CAPITAL	Profit-type income and capital consumption allowances items 2, 3, 4, 5, 6, 9					
GOVERNMENT	Indirect business taxes and current surplus of govt. enterprises, etc. items 7 & 8					
	Gross national product					

environment in which the firms can expect to operate, and to evaluate investment prospects in various industries.

Input-output has also been employed in the decision-making processes of Government agencies at every level. A notable Federal application has been in the study of the long-term growth of the economy and its implications for manpower requirements. Input-output has also been used to calculate the impact of U.S. exports and imports on employment in the various industries and

regions of the Nation. A number of State and local governments have sponsored the construction of input-output tables for use in evaluating the effects of different paths of economic development. Others have used input-output to study the industrial impact of alternative tax programs. In one State, input-output is the central element in a large scale system for forecasting the demographic and economic variables, as an aid in planning land use, expenditure and revenue programs, industrial

development, and so on.

Many regions throughout the Nation have been increasingly concerned about the adequacy of water resources. Input-output is being used as part of a total system to measure the industrial requirements for water. It is particularly helpful in identifying those activities that generate important demands for water not only as direct users but because their suppliers of materials, power, and other inputs also require water.

CHART 12

### INPUT-OUTPUT FLOW TABLE

		PRODUCERS								FINAL MARKETS			
PRODUCERS		Agriculture	Mining	Construction	Manufacturing	Trade	Transportation	Services	Other	Persons	Investors	Foreigners	Government
	Agriculture												
	Mining												
	Construction												
	Manufacturing												
	Trade												
	Transportation												
	Services												
VALUE ADDED	Other												
	Employees	Employee compensation											
	Owners of Business and Capital	Profit-type income and capital consumption allowances											
	Government	Indirect business taxes and current surplus of govt. enterprises, etc.											

Personal consumption expenditures

Gross private domestic investment

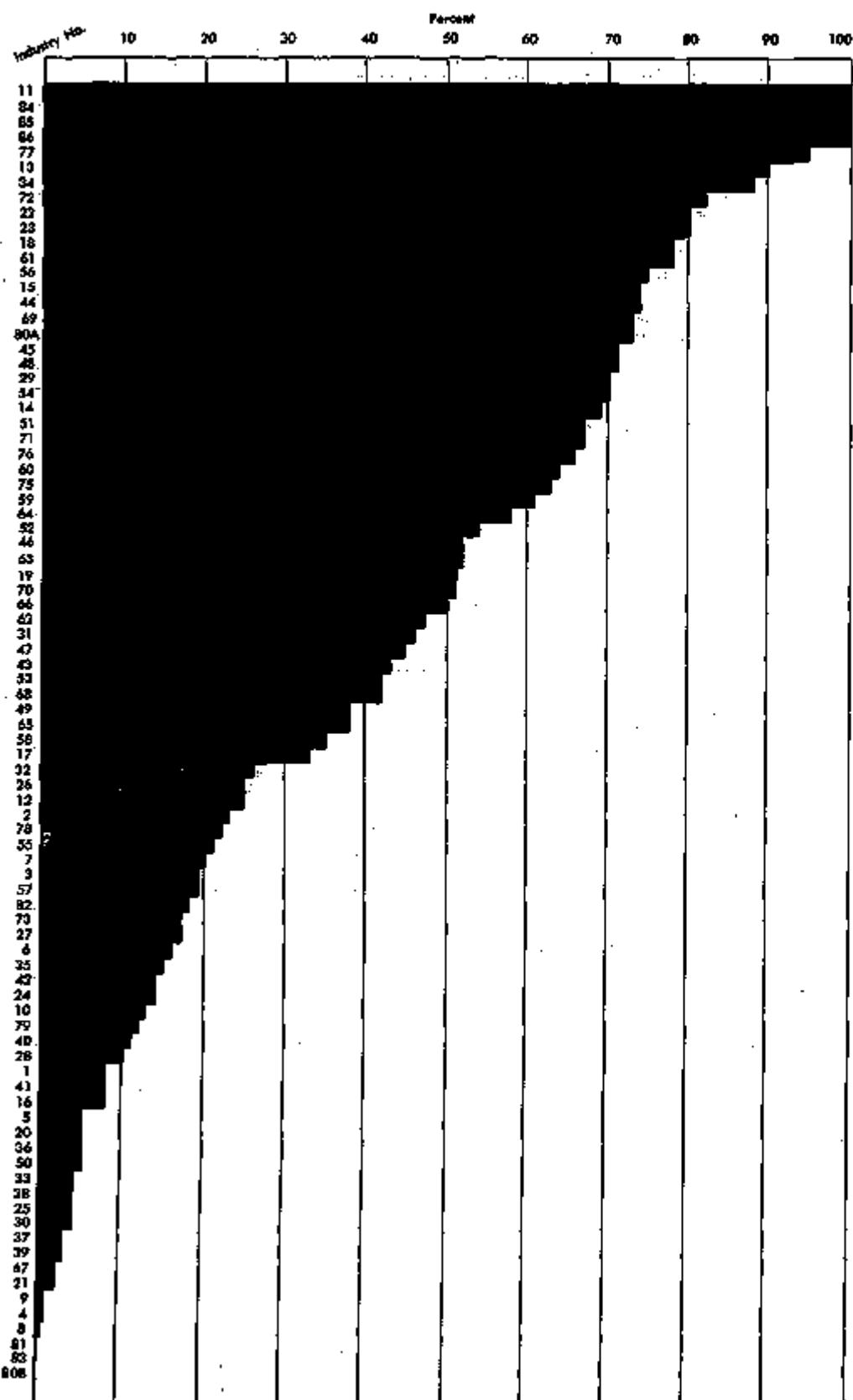
Net exports of goods and services

Government purchases of goods and services

GROSS NATIONAL PRODUCT

CHART 13

**Producing Industries Ranked by Percent of Output  
Sold Directly to Final Demand, 1963**



The use of statistical information in economic analysis generally requires reliance on quantitative relationships among economic variables. In the case of input-output, the most important of these relationships is the proportionality between total output of an industry and its input requirements. The use of proportional relationships is explained on pages 23-24 in connection with the discussion of tables 2 and 3.

Many of the users of input-output make the simplifying assumption that the proportions developed in the most recent table are applicable to other years and over a considerable range of output levels. While there are theoretical limitations to this assumption, it has generally yielded satisfactory results. However, where significant changes in the proportions do occur, they should be introduced. Information on the extent of the changes that have occurred—as shown by the input-output tables for 1947, 1958, and 1963—will be discussed in forthcoming OBE studies.

#### Description of the tables

The results of the 1963 input-output study are presented in three basic tables—the transactions or flow table, the direct requirements table, and the total requirements table. The discussion which follows provides a description of these tables and highlights some of the important interindustry relationships for 1963.<sup>3</sup>

*The transactions (or flow) table (table 1).* Table 1 shows the dollar value of the transactions among the various industries. Each row displays the distribution to each of the industries and final users of the output of goods and services of the industry. The columns show the value of each industry's consumption (input) of raw materials, semi-finished products and services, and its value added.

One interesting aspect of the sales pattern that is shown by table 1 is the wide variation in the proportion of output sold directly to the final markets by the various industries.

3. In the use of the information presented in these tables, it is important to keep in mind the definitions and conventions adopted for the 1963 input-output study. The most important of these are described briefly in the final section of this article.

## SURVEY OF CURRENT BUSINESS

Table A.—Total, Direct, and Indirect Output Attributable to Each Category of Final Demand, 1968  
[Percent]

	Personal consumption expenditures			Gross private fixed capital formation			Net inventory change			Gross exports			Federal Government purchases <sup>1</sup>			State and local government purchases		
	Total	Direct	Indirect	Total	Direct	Indirect	Total	Direct	Indirect	Total	Direct	Indirect	Total	Direct	Indirect	Total	Direct	Indirect
1. Livestock and livestock products	85.8	6.6	82.2	1.6	0	1.4	1.8	1.4	1.6	4.0	0.1	2.9	1.5	(*)	1.5	1.3	0.1	1.2
2. Other agricultural products	74.2	12.6	64.3	2.8	0	2.6	1.6	2.1	1.6	14.6	10.7	2.2	3.2	-8.8	2.0	1.3	1.7	1.4
3. Forestry and fishery products	61.3	24.0	41.2	22.2	0	22.2	2.1	2.5	3.2	4.2	2.2	2.6	3.2	-8.8	2.9	2.6	2.1	2.0
4. Agricultural, forestry and fishery services	79.1	9.9	69.2	6.0	0	6.0	2.1	2.1	3.1	10.5	6.6	2.6	3.2	-8.8	2.4	2.1	-1.6	2.0
5. Iron and ferroalloy ore mining	31.0	0	33.0	33.4	0	33.4	-1.9	-3.9	2.0	17.8	8.8	9.5	10.2	-8.8	2.5	2.5	7.5	7.5
6. Numerous metal ore mining	24.0	0	24.0	25.5	0	25.5	1.9	-2	2.1	9.7	1.1	0.8	31.7	-15.6	6.4	8	6.4	6.4
7. Coal mining	51.3	6.2	47.0	14.5	0	14.5	1.0	(*)	1.0	18.8	11.6	7.0	1.9	5.7	5.9	5.3	5.3	5.3
8. Crude petroleum and natural gas	71.6	0	71.6	8.7	0	8.7	1.5	1.2	1.6	6.2	1.1	5.7	0	8.7	8.7	0	8.7	8.7
9. Stone and clay mining and quarrying	28.8	0	28.1	42.0	0	42.0	1.1	-1	1.0	8.6	1.9	1.7	7.3	-1.1	1.1	0	22.4	22.4
10. Chemicals and fertilizer mineral mining	46.3	7.7	46.3	11.0	0	11.0	1.9	0	2.0	21.5	12.6	14.2	1.1	10.1	9.9	3.4	8	8
11. Non-constuction	0	0	0	70.4	70.4	0	0	0	0	(*)	(*)	(*)	0	0	0	20.2	21.4	2.5
12. Maintenance and repair construction	60.5	0.3	61.3	1.5	0	1.5	-1.9	-4	-1	2.8	0.9	2.1	11.1	6.1	6.0	3.8	3.7	2.5
13. Ordinance and accessories	4.4	2.9	1.7	1.5	0	1.5	-1.9	-4	-1	2.8	1.1	1.7	1.1	0	0	0	0	0
14. Food and kindred products	92.0	67.2	24.8	1.0	0	1.0	1.2	-8	-6	2.2	2.1	1.4	1.7	-7	1.3	0.7	0	0
15. Tobacco manufactures	29.5	0	29.9	0.5	0	0.5	-4	-1	0.1	9.3	6.8	2.9	0.8	0	0	0	0	0
16. Broad and narrow fabrics, yarn and thread mills	36.0	4.8	31.2	3.7	0	3.7	1.4	-2	1.2	6.1	2.1	2.0	2.5	4	2.1	1.5	1.1	1.6
17. Miscellaneous textile goods and door coverings	74.7	27.9	47.1	11.7	1.7	11.0	2.6	2.3	1.2	1.9	0.6	2.1	3.4	0	2.1	2.6	0	2.9
18. Apparel	76.8	19.8	56.8	10.8	0	10.8	0.6	-6	-1	1.2	0.9	0.9	0.9	-6.7	0.7	0.7	0.8	0.8
19. Miscellaneous fabricated textile products	91.6	48.7	48.1	5.1	0	5.1	2.0	1.2	0.8	1.1	0.9	0.7	0.7	0.2	1.6	1.4	0	1.1
20. Lumber and wood products, except containers	31.3	2.2	29.1	40.7	1.1	40.8	1.5	1.5	0.9	6.8	3.0	3.0	0.7	1.1	0.7	14.6	(*)	14.9
21. Wooden containers	61.1	0	60.1	12.7	0	12.7	2.2	2.2	2.0	7.8	0.6	7.7	7.7	1.0	0.7	0.6	0	0
22. Household furniture	78.0	24.4	4.6	11.7	3.1	8.8	2.0	1.8	2.2	1.8	1.0	1.4	2.7	4	2.6	0	2.5	2.5
23. Other furniture and fixtures	10.6	5.9	5.7	68.4	0	68.4	0.4	0.4	0.2	1.8	1.6	0.5	0.5	0.2	0.2	0.2	0.2	0.2
24. Paper and allied products, except containers	61.1	9.5	60.6	9.4	0	9.4	2.0	2.0	1.8	7.0	3.4	4.5	8.8	0.4	0.4	0.4	5.4	5.4
25. Paperboard containers and boxes	72.2	1.6	70.6	10.3	0	10.3	2.2	2.2	1.8	6.4	1.1	2.2	7.7	0	0	0	5.6	5.6
26. Printing and publishing	70.5	13.4	61.1	8.2	0	8.2	1.8	1.8	1.6	3.8	1.0	2.2	7.7	0	0	0	5.6	5.6
27. Chemicals and related chemical products	32.2	2.8	30.9	18.7	0	18.7	2.2	2.2	1.7	16.2	8.9	8.3	12.8	0.1	0.1	0	4.6	4.6
28. Plastics and synthetic materials	61.7	2.2	61.5	11.2	0	11.2	2.2	2.2	1.8	14.4	8.7	8.7	8.7	0	0	0	2.9	2.9
29. Drugs, cleaning and toilet preparations	34.0	60.0	24.0	1.7	0	1.7	2.1	1.8	1.2	4.9	4.7	1.2	1.2	0	0	0	1.1	1.1
30. Paints and allied products	24.6	9.9	47.7	24.6	0	24.6	2.7	2.7	1.5	5.1	1.3	2.8	8.6	0	0	0	12.9	12.9
31. Petroleum refining and related industries	70.8	37.7	37.6	9.1	0	9.1	1.5	1.5	0.9	7.6	6.8	8.1	7.1	0	0	0	8.8	8.8
32. Rubber and miscellaneous plastic products	61.8	19.8	41.5	14.1	0	14.1	2.6	2.6	1.1	6.9	2.8	4.1	8.2	0	0	0	1.0	1.0
33. Leather tanning and industrial leather products	51.7	0	50.7	4.2	0	4.2	-1.6	-1.6	-1.0	6.0	4.3	1.6	1.3	0	0	0	0	0
34. Footwear and other leather products	50.5	10.5	5.7	0	0	0	-1.4	-1.4	0	5.9	0.5	2.9	6.3	0	0	0	0	0
35. Glass and glass products	64.0	9.1	55.9	12.3	0	12.3	3.2	3.2	2.8	7.2	3.3	2.9	6.3	0	0	0	4.4	4.4
36. Stone and clay products	16.6	2.3	14.3	55.7	0	55.7	1.2	1.2	0.8	8.2	1.3	1.9	7.0	0	0	0	18.5	18.5
37. Primary iron and steel manufacturing	32.4	(*)	38.4	27.1	0	27.1	2.8	2.8	1.4	1.9	0.4	2.0	7.4	0.9	0.2	0	3.0	3.0
38. Primary nonferrous metal manufacturing	20.0	1	27.0	33.6	0	33.6	2.9	2.9	2.0	11.5	3.4	3.4	16.0	0	0	0	2.2	2.2
39. Metal containers	26.6	0	30.6	4.8	0	4.8	4.4	4.4	1.1	6.6	1.0	6.6	2.4	0	0	0	0	0
40. Heating, printing and structural metal products	9.4	1.0	8.4	60.1	6.0	60.1	1.2	1.2	0.8	4.6	2.8	1.2	7.0	0	0	0	18.2	18.2
41. Stamping, screw machine products and tools	47.6	5.4	42.2	26.3	0	26.3	2.0	2.0	1.0	8.1	7.1	0.9	8.2	12.5	0	0	4.5	4.5
42. Other fabricated metal products	72.6	6.5	55.7	20.4	0	20.4	2.2	2.2	1.0	8.1	2.9	2.9	8.1	0	0	0	7.0	7.0
43. Engines and turbines	24.1	3.2	18.9	27.8	16.2	27.8	2.1	2.1	1.1	10.1	12.6	6.5	14.8	0	0	0	2.5	2.5
44. Farm machinery and equipment	12.1	0.3	11.8	20.6	6.1	20.6	0.2	0.2	0.1	1.6	1.6	0.3	1.6	0	0	0	0	0
45. Construction, mining and oil field machinery	7.4	0	7.4	55.2	43.3	55.2	12.9	12.9	1.3	1.6	1.3	1.6	2.6	0	0	0	4.1	4.1
46. Materials handling machinery and equipment	11.5	0	11.5	64.4	41.1	64.4	22.3	22.3	1.1	1.2	1.1	1.2	2.3	0	0	0	6.5	6.5
47. Metalworking machinery and equipment	18.4	1.5	18.5	50.9	44.5	50.9	24.6	24.6	1.1	1.2	1.1	1.2	2.3	0	0	0	2.1	2.1
48. Special industry machinery and equipment	18.5	0.6	18.2	65.6	54.6	65.6	2.9	2.9	1.1	1.7	1.1	1.7	2.6	0	0	0	1.2	1.2
49. General industrial machinery and equipment	18.7	0	18.7	55.2	25.0	55.2	27.3	27.3	1.0	1.1	1.0	1.1	2.6	0	0	0	2.2	2.2
50. Machine shop products	20.5	0.1	20.2	22.7	0	22.7	2.6	2.6	1.4	2.2	0.8	2.0	2.6	0	0	0	1.0	1.0
51. Office, computing and accounting machines	12.5	2.2	11.3	52.2	41.1	52.2	12.5	12.5	1.0	1.0	0.8	0.8	11.6	0	0	0	2.2	2.2
52. Service industry machines	24.5	0.9	14.7	42.1	28.8	42.1	19.8	19.8	1.5	1.5	1.5	1.5	2.6	0	0	0	1.5	1.5
53. Electric industrial equipment and apparatus	18.5	0.2	18.2	51.1	28.7	51.1	22.4	22.4	1.4	1.4	1.4	1.4	2.6	0	0	0	0.6	0.6
54. Household appliances	71.4	1.2	71.2	11.5	12.5	11.5	2.6	2.6	1.4	4.5	4.5	4.5	11.6	0	0	0	2.5	2.5
55. Electric lighting and wiring equipment	39.0	13.7	19.3	26.9	1.8	26.9	1.5	1.5	0.8	5.1	0	0	10.3	0	0	0	11.4	11.4
56. Radio, television and communication equipment	22.2	15.2	6.4	20.2	15.5	4.7	1.6	1.6	1.2	4.6	4.4	4.4	1.7	0	0	0	0	0
57. Electronic components and accessories	51.1	3.9	26.2	19.2	2.1	19.1	1.9	1.9	-2	1.1	0.8	0.8	27.7	11.0	1.1	0	2.0	2.0
58. Miscellaneous electrical machinery, equipment and supplies	51.3	15.8	51.0	34.0	2.8	34.0	15.2	15.2	1.2	1.1	7.8	7.8	2.3	11.1	0	0	3.1	3.1
59. Motor vehicles and equipment	52.5	35.4	24.1	24.2	14.2	24.2	2.1	2.1	1.5	1.5	1.5	1.5	2.3	1.7	1.5	0	1.2	1.2
60. Aircraft and parts	4.5	0.9	4.5	5.8	0	5.8	2.1	2.1	1.5	1.5	1.5	1.5	2.4	0	0	0	1.4	1.4
61. Other transportation equipment	29.4	20.0	3.4	34.8	20.0	4.0	1.2	1.2	0.8	5.2	5.2	5.2	18.6	0	0	0	1.6	1.6
62. Scientific and controlling instruments	31.8	9.4	22.2	26.1	16.7	13.4	2.2	2.2	1.3	1.1	1.1	1.1	20.2	0	0	0	2.3	2.3
63. Optical, ophthalmic and photographic equipment	54.5	23.8	20.7	18.2	12.4	4.9	0	0	0	5.5	3.2	2.1	12.8	0	0	0	2.6	2.6
64. Miscellaneous manufacturing	75.1	41.1	34.1	10.3	8.6	6.7	0	0	0	1.5	1.5	1.5	7.1	0	0	0	2.5	

Table B.—Sales of Specified Industries to Each Category of Final Demand, in  
(millions of dollars)

Line	Producing industry	Personal consumption expenditures				Gross private fixed capital formation				Net inventory change			
		Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
1	Livestock and livestock products.	1,762	17	203	2,942	0	0	0	0	374	(*)	34	374
2	Other agricultural products.	2,802	615	2,203	4,295	0	0	0	0	564	46	564	564
3	Forestry and lumber products.	620	51	205	677	0	0	0	0	44	0	44	44
4	Iron and ferroalloy ore mining.	0	0	0	0	0	0	0	0	-55	0	-55	-55
5	Nonferrous metal ore mining.	0	0	0	0	0	0	0	0	-2	0	0	-2
6	Coal mining.	166	79	125	375	0	0	0	0	16	(*)	1	(*)
7	Crude petroleum and natural gas.	0	0	0	0	0	0	0	0	0	0	0	0
8	Stone and clay mining and quarrying.	15	1	0	18	0	0	0	0	1	0	0	1
9	Chemical and fertilizer mineral mining.	2	1	(*)	3	0	0	0	0	-1	(*)	0	-1
10	Ordnance and accessories.	181	2	147	230	0	0	0	0	-28	(*)	0	-28
11	Food and kindred products.	48,921	1,121	26,871	78,715	0	0	0	0	52	(*)	13	52
12	Tobacco manufactures.	4,943	48	2,800	7,185	0	0	0	0	22	(*)	2	22
13	Broad and narrow fabrics, yarn and thread mills.	630	9	723	1,351	0	0	0	0	23	0	23	23
14	Miscellaneous textile goods and floor coverings.	1,911	20	836	1,964	0	0	0	0	22	0	22	22
15	Aypacel.	12,697	107	8,000	21,304	0	0	0	0	67	0	67	67
16	Miscellaneous fabricated textile products.	1,482	26	1,076	2,582	0	0	0	0	40	1	40	40
17	Lumber and wood products, except containers.	230	15	106	345	(*)	0	0	0	69	1	69	74
18	Wooden containers.	0	0	0	0	0	0	0	0	1	0	1	1
19	Household furniture.	1,024	96	2,006	5,134	124	0	0	194	75	2	75	75
20	Other furniture and fixtures.	123	17	134	263	1,157	58	280	1,470	14	1	14	16
21	Paper and allied products, except containers.	1,241	36	651	1,929	0	0	0	0	50	6	50	50
22	Paperboard containers and boxes.	74	2	41	136	0	0	0	0	33	1	33	34
23	Printing and publishing.	3,160	55	1,499	4,453	0	0	0	0	100	0	100	100
24	Chemicals and selected chemical products.	394	34	238	604	0	0	0	0	28	0	28	27
25	Plastics and synthetic materials.	32	(*)	4	17	0	0	0	0	0	0	0	0
26	Drapery, cleaning and toilet preparations.	6,628	108	4,046	9,873	0	0	0	0	160	4	160	161
27	Paints and allied products.	23	1	19	42	0	0	0	0	38	0	38	38
28	Petroleum refining and related industries.	8,320	722	8,288	17,103	0	0	0	0	177	0	177	178
29	Bubble and miscellaneous plastic products.	1,353	50	1,138	2,051	126	0	0	28	105	0	105	105
30	Leather tanning and industrial leather products.	0	0	0	0	(*)	0	0	0	0	0	0	0
31	Footwear and other leather products.	3,082	30	2,037	5,108	0	0	0	0	48	0	48	-47
32	Glass and glass products.	288	7	181	407	0	0	0	0	58	0	58	58
33	Stone and clay products.	217	12	142	270	0	0	0	0	71	0	71	71
34	Primary iron and steel manufacturing.	10	1	5	15	0	0	0	0	102	0	102	102
35	Primary nonferrous metal manufacturing.	12	(*)	6	18	22	1	1	24	122	0	122	125
36	Metal container.	0	0	0	0	(*)	0	0	0	0	0	0	0
37	Heating, plumbing and structural metal products.	88	33	19	111	556	0	0	558	38	0	38	38
38	Stampings, screw machine products and bolts.	266	35	197	469	0	0	0	0	55	0	55	55
39	Other fabricated metal products.	590	15	386	906	0	0	0	0	289	0	289	301
40	Engines and turbines.	128	3	20	167	388	6	27	421	27	0	27	27
41	Farm machinery and equipment.	10	(*)	4	15	1,902	59	512	2,639	48	0	48	49
42	Construction, mining and oil field machinery.	0	0	0	0	1,780	51	2,015	52	0	0	0	12
43	Materials handling machinery and equipment.	0	0	0	0	335	26	59	244	12	0	12	12
44	Metalworking machinery and equipment.	77	1	20	98	1,670	10	98	1,768	58	0	58	58
45	Special industry machinery and equipment.	21	(*)	11	2,026	28	125	2,179	35	0	35	35	35
46	General industrial machinery and equipment.	0	0	0	0	1,286	26	123	1,683	45	0	45	45
47	Machine shop products.	2	(*)	2	4	6	(*)	7	7	0	0	0	0
48	Office, computing and accounting machines.	56	1	77	164	1,615	11	126	1,922	41	0	41	41
49	Service industry machines.	352	8	163	507	1,112	28	304	1,341	55	0	55	55
50	Electric industrial equipment and apparatus.	23	(*)	6	21	1,632	28	109	2,034	33	0	33	33
51	Household appliances.	2,703	30	1,713	4,604	120	3	12	141	211	5	21	227
52	Electric lighting and wiring equipment.	423	10	241	678	0	0	0	62	27	0	27	20
53	Radio, television and communication equipment.	2,059	62	1,019	3,165	1,934	8	55	2,017	151	12	12	156
54	Electronic components and accessories.	176	1	94	271	96	(*)	6	102	-9	0	0	1
55	Miscellaneous electrical machinery, equipment and supplies.	398	8	242	618	128	3	54	265	28	1	6	34
56	Motor vehicles and equipment.	15,291	377	3,423	19,286	5,671	140	1,102	6,913	611	14	23	610
57	Aircraft and parts.	49	(*)	4	53	446	5	33	466	342	0	0	342
58	Other transportation equipment.	840	29	396	1,215	1,465	33	60	1,568	66	0	66	63
59	Scientific and controlling instruments.	403	36	395	794	678	8	93	779	58	0	58	58
60	Optical, ophthalmic and photographic equipment.	604	6	248	1,467	346	2	280	622	14	0	14	17
61	Miscellaneous manufacturing.	1,327	61	2,620	6,009	407	11	209	717	44	1	44	57
62A	Directly allocated imports.	6,004	308	3,067	19,381	106	12	59	1,235	21	0	0	21
62	Office supplies.	0	0	0	0	0	0	0	0	0	0	0	0
63	Scrap, used and secondhand goods.	-290	0	2,861	2,131	-973	0	513	-459	106	0	0	106

\*Less than \$100,000.

1. Includes insurance charges of \$11 million on personal consumption expenditures and \$1 million on gross private fixed capital formation.

NOTE.—Excludes industries where the value of sales in producers' and purchasers' prices are equal because there are no trade margins or transportation costs on these sales. Detail may not add to total due to rounding.

## Producers' and Purchasers' Prices, 1963

Gross exports				Federal Government purchases				State and local government purchases				Line
Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	
38	7	2	53	6	(*)	2	7	32	1	(*)	12	1
2,617	344	259	3,420	-92	5	5	-81	38	13	29	113	2
49	6	7	58	-122	0	0	-122	2	(*)	(*)	8	3
118	19	0	133	9	1	0	10	0	0	0	0	4
1	(*)	0	1	242	9	0	251	0	0	0	0	5
385	171	10	486	36	20	1	87	14	9	(*)	24	6
12	0	0	32	0	0	0	0	0	0	0	0	7
28	17	(*)	54	3	2	(*)	5	-25	0	0	-80	8
52	19	2	64	(*)	37	(*)	15	24	7	1	81	9
197	4	9	211	8,300	(*)	37	6,300	2	(*)	0	2	10
1,648	47	117	1,232	317	7	5	328	488	10	-227	371	14
508	2	12	522	(*)	0	-1	-1	1	(*)	-1	1	15
221	4	17	302	24	12	(*)	2	56	14	(*)	15	16
29	1	3	22	12	(*)	1	14	5	(*)	1	17	17
147	1	10	159	60	1	5	74	75	1	(*)	11	18
35	(*)	2	35	95	1	5	75	8	(*)	1	9	19
194	25	12	292	6	(*)	1	2	8	(*)	0	0	20
2	(*)	2	12	4	(*)	(*)	5	0	0	0	0	21
10	1	11	17	1	1	1	18	16	1	1	23	22
19	37	1	22	42	2	2	49	206	0	25	235	23
49	22	22	506	47	2	5	56	65	2	(*)	47	24
22	1	1	25	18	(*)	-1	11	59	2	8	68	25
193	29	26	186	117	-3	-5	108	550	10	-35	227	26
1,109	54	26	1,218	1,084	26	23	1,083	208	15	16	284	27
503	18	38	1,000	42	(*)	(*)	42	(*)	(*)	(*)	(*)	28
235	10	27	473	73	3	6	83	366	12	28	296	29
31	1	5	28	3	(*)	(*)	3	(*)	(*)	1	20	30
678	36	125	525	711	46	37	928	201	22	33	357	31
276	8	28	311	171	1	(*)	1	101	5	12	318	32
41	1	1	43	1	(*)	(*)	1	0	0	0	0	33
18	(*)	1	19	6	(*)	(*)	6	1	(*)	(*)	1	34
98	4	12	118	12	1	1	15	28	1	41	45	35
129	2	12	128	23	1	1	26	15	1	16	25	36
93	22	19	583	-11	(*)	-1	-12	(*)	(*)	(*)	(*)	37
491	7	6	563	-11	(*)	-1	-12	(*)	(*)	(*)	(*)	38
25	1	(*)	26	7	(*)	(*)	7	(*)	2	(*)	(*)	39
203	15	27	570	58	1	1	82	(*)	(*)	(*)	(*)	41
44	1	3	49	23	1	1	26	20	1	12	41	42
250	5	35	502	56	1	1	47	47	1	10	50	43
303	5	29	523	173	1	1	12	194	0	0	0	44
285	9	26	428	11	(*)	1	12	15	(*)	1	17	45
536	22	92	1,058	105	4	4	10	119	1	13	228	46
26	4	8	107	35	4	4	8	78	1	2	22	47
223	28	8	458	56	(*)	2	51	28	(*)	2	24	48
522	9	22	602	27	(*)	2	15	7	(*)	1	3	49
278	2	26	623	26	2	12	261	12	(*)	1	14	50
9	0	0	45	22	2	2	22	22	2	45	45	51
317	25	25	476	488	2	27	478	111	2	20	322	52
269	6	25	289	47	4	8	46	23	1	15	33	53
343	6	18	298	458	4	10	487	51	1	1	44	54
132	4	20	156	10	(*)	1	15	14	0	2	16	54
51	7	9	59	12	(*)	1	15	14	1	4	55	55
295	19	26	269	4,066	12	2	4,066	118	1	1	222	57
199	1	24	212	398	2	26	398	0	(*)	(*)	5	57
75	1	16	91	110	1	16	126	12	(*)	4	17	58
1,286	32	32	1,471	663	18	26	704	644	15	26	686	59
357	1	24	582	7,823	7	52	7,821	(*)	0	0	50	60
165	4	9	178	1,124	1	2	1,127	30	1	1	34	61
278	6	43	422	406	2	24	441	118	1	18	128	62
157	1	30	191	147	1	29	177	65	(*)	12	120	64
186	3	30	228	9	(*)	1	9	102	3	15	120	64
352	0	1	392	2,640	23	9	2,681	3	(*)	8	3	60A
279	0	11	0	145	8	18	146	243	7	50	200	62
352	0	11	467	-55	0	0	-55	506	0	0	506	62

Source: U.S. Department of Commerce, Office of Business Economics.

Some industries, such as footwear and other leather goods (34) and household furniture (22) sold over three-fourths of their total output to final markets and are, therefore, directly affected to a substantial degree, by changes in these markets. On the other hand, other industries such as agricultural services (4) and iron and ferro-alloy ores mining (5) sold virtually all of their output to intermediate consumers. For such industries the connection between production and final markets is remote and can be traced only through the sales of their customers. Of the 85 separate industries examined, 51 sold over half of their output to intermediate users; as many as 38 sold more than three-fourths of their output to such users. The wide range in the percentage of total output sold directly to final demand is shown in chart 13.

Table 1 also shows the diversity of the intermediate distribution patterns of industries. For example, the primary iron and steel manufacturing industry (37) and the metal container industry (39) both sold over 90 percent of their output to other industries. The former sold its output to 64 industries, none accounting for more than 20 percent of steel output. In contrast, the latter sold its output to 30 industries, one of which, food and kindred products (14), absorbed 65 percent of container output.

It is important to bear in mind that the output distributions shown in table 1 refer to 1963 and, therefore, reflect the demands, prices, and product mixture for that year. As these change over time, this output distribution pattern will also change.

*Direct requirements table (table 2).* Table 2 relates each of the inputs of an industry to its total output. Each column shows the inputs that the industry named at the top of that column required from each of the industries named at the beginning of the rows to produce a dollar of its output.

For example, to produce a dollar of output, the chemicals manufacturing industry (27) required 18 cents of its own production, 6 cents from the petroleum refining industry (31), 3 cents from the chemical mining industry (10), etc.

Table 2 shows the heavy interdependence among the industries which is a feature of the U.S. economy. Almost all industries required inputs from at least 30 others. As many as 57 industries required inputs from over 50 industries. The chemicals industry (27) for example, required inputs from 73 industries, only eight of which are producers of basic raw materials.

The data in table 2 permit the tracing of the interconnections among the various industries and final demand in a systematic way. For example, assume that the household furniture industry produces \$1 million of furniture for sale to consumers. By use of column 22 it can be established that the household furniture industry would require slightly under \$18,000 ( $\$1,000,000 \times 0.01776$ ) from itself. Thus, industry 22 would have to produce a minimum of \$1,018,000. Continuing the calculation, this output would require almost \$54,000 ( $\$1,018,000 \times 0.05265$ ) of fabrics from industry 16, a little over \$142,000 ( $\$1,018,000 \times 0.13970$ ) of wood products from industry 20, and so on down the column.

The next calculation is that of the output required by each of the supplying industries to meet the requirement placed on it. For example, industry 22 has so far required \$54,000 of fabrics from industry 16. To meet this requirement, industry 16 requires an output of over \$18,000 ( $\$54,000 \times 0.32652$ ) from itself, and for the resulting \$72,000 of output, almost \$6,000 ( $\$72,000 \times 0.08805$ ) from industry 28.

This chain of calculations of output requirements which spread through the economy can be continued, and the total output required from each industry to produce \$1 million of household furniture for consumers can thus be derived. This is a very laborious and time-consuming procedure unless performed on an electronic computer. However, the total output required from each industry can be easily calculated using table 3, in which

the relationships shown in table 2 have been completely traced and summarized.

*Total requirements table (table 3).* Each column of table 3 shows the output required both directly and indirectly from the industry named at the beginning of each row for each dollar of deliveries to final demand by the industry named at the head of the column.<sup>4</sup> The data in the table make it possible to calculate the impact on the various industries of the economy which result from stipulated changes in the final demand.

Although table 3 is more convenient for calculating total requirements, table 2 will sometimes be preferred, because it permits flexibility in the computation and modification of the relationships which are used. Also, table 2 is needed to split the total requirements, as given in table 3, into their direct and indirect components.

Returning to the household furniture example, it is possible to calculate the impacts quite simply, rather than laboriously tracing the impacts from industry to industry. Thus, the column for industry 22 shows that to provide final demand with an additional \$1 million of household furniture, \$1,019,000 ( $\$1,000,000 \times 1.01839$ ) is required in total from industry 22, \$96,000 ( $\$1,000,000 \times 0.09601$ ) from industry 16, almost \$209,000 ( $\$1,000,000 \times 0.20882$ ) from industry 20, and so on.

As a further illustration of the link provided by input-output between final demand and the output of each industry, a series of calculations were performed using table 3. The results of these calculations appear in table A which shows the percentage of output of each industry attributable, directly or indirectly, to each category of final demand in 1963.

As may be seen from this table, the direct impact of a given category of final demand on an industry may be less important than its indirect effect. For example, while only 10 percent of the output of the paper industry (24) was sold to persons, 69 percent of its output was attributable to total con-

sumption by persons. The table also shows that although no investment goods are produced by the paper industry, almost 9 percent of its output was indirectly associated with fixed investment. Further, 9 percent of chemical mining (10) was exported directly, but 22 percent of its output was attributable to total exports.

The data in table A also show that most industries are heavily dependent on consumer expenditures. Of the 82 industries included in this table, 49 derive half or more of their output from consumer purchases. Another 13 derive more than half of their output from fixed investment, and only two derive more than half from Federal Government. The remaining 18 industries depend on more than one final demand category for the bulk of their output.

#### Supplementary data requirements

Before table 3 (or table 2) can be used to measure the impact of changes in the level and composition of GNP on each of the industries, a bill of goods must be formulated. A bill of goods is a set of final demands classified according to the industry categories of the table, expressed in 1963 prices, and valued at producers' prices. Furthermore, the trade margin on all items of the bill of goods is separately specified as a requirement from the trade industry. Similarly the transportation cost involved in the delivery to final markets of all items in the bill of goods is separately entered as a requirement from the transportation industry.

Some of the supplementary data useful in preparing bills of goods are presented in this article. Table 1 (see page 35) shows the industrial composition of each category of final demand in 1963. These data may be used to distribute by industry the value of each of the categories of final demand, if the value is available in the aggregate only. Table B presents industry sales to each category of final demand in purchasers' prices, and shows the trade margins and transportation costs included in these prices. This table should be used if the final demand to be analyzed is given in purchasers' prices and in the industrial classification of the input-output table. Similar data for the intermediate sales will appear in a future publication. In

4. The mathematical procedures for converting direct requirements to total requirements are described in *Input-Output Economics*, Harry H. Chavary and Paul G. Clark, John Wiley & Sons, 1963; *Input-Output and National Accounts*, Richard Stone, The Organization for European Economic Cooperation, 1961; and other similar texts.

addition, OBE will make available, upon request, data which can be used to translate estimates of personal consumption expenditures for each of the 12 major categories into the classification of the input-output table.

The price information required for input-output analysis is essentially the same that is used to convert current dollar GNP—by final demand category and by industry of origin—into constant dollar GNP. OBE plans to make this information available to users of input-output tables in as much detail as possible. The price information used to deflate GNP is derived largely from the Consumer Price Index and the Wholesale Price Index of the U.S. Department of Labor. This information can be used in input-output analysis to supplement the price data obtained from the GNP accounts.

### Definitions and Conventions of the 1963 Input-Output Tables<sup>5</sup>

**Trade.** The input-output tables do not trace actual flows to and from the trade industry. If trade were shown as buying and reselling, the detailed connections would be between trade and the producing industries, while the consuming industries and final users would make most of their purchases from a single source—trade. To show the links between producing and consuming industries or final markets, commodities are shown as if moving directly from producer to user, bypassing trade. Therefore, the output of trade is measured in terms of total margins—that is, operating expense plus profit.

**Valuation of transactions.** The valuation underlying the tables in this report is based on producers' prices.<sup>6</sup> Such prices exclude the distribution costs which make up the difference between producers' and purchasers' prices. Under a system of producers' valuations, the individual inputs into a consuming industry are valued at producers' prices while the trade margin and transporta-

tion costs associated with all of these inputs appear as inputs to the consuming industry from the trade industry and transportation industry, respectively.

**Classification of industries.** For this article, all productive activities of the U.S. economy are grouped into 85 industries. Most of these are combinations of industries as defined in the Standard Industrial Classification (SIC) Manual, 1957 edition. Three are "dummy" industries established to simplify the estimating procedures. A list of the industrial categories and their composition in terms of the SIC is given on pages 26-29.

**Secondary products or activities.** In most cases, secondary products are treated as if sold by the producing industry to the primary industry and added to the output of the primary industry for distribution to users.<sup>7</sup>

In those industries in which secondary production is large and, at the same time, considerably different from the primary output, the secondary products, and their associated inputs, are subtracted from the producing industries and added to the primary industry.

**Imports.** Imports used for production (intermediate goods and services) which are substitutable for domestically produced goods and services<sup>8</sup> are treated like secondary products; they are shown as if purchased by the industry producing the substitutable item and added to that industry's output.

Imports used in production which have no domestic counterparts, and imports purchased by final users in substantially the same form in which they were imported, are shown as purchased directly by the consuming industry or final market.

**Gross output and gross input.** Gross output of an industry represents the sum of the values of the following elements: (a) the total production by the industry, including both primary and secondary products or services; (b) the producers' value of the secondary products or services of other industries which are primary to the given industry; and (c) the domestic port value of substitutable imports, which are distributed as part of the output of the given industry.

Gross input of an industry is equal to the sum of the values of the following elements: (a) total consumption of goods and services required for the industry's total production; (b) value added by the industry; (c) the producers' value of the secondary products or services of other industries which are primary to the given industry; and (d) the domestic port value of substitutable imports.<sup>9</sup>

Gross output, the row total, equals gross input, the column total.

**Inventories.** The inventory change shown for each industry represents the change in inventories of the industry's products regardless of which industry actually owns or holds the inventories. (This is different from the customary industry inventory figures which represent inventories held by each industry.) Inventories are so classified in the input-output table in order to provide the balance between the output of each industry and the total consumption of its products. Current production includes products which end up in inventories and are therefore not reflected in consumption. On the other hand, consumption may come from inventories of the producer, of the consumer, or of trade companies as well as from current output. To the extent it comes from inventories, it is not included in current production. Therefore, adding inventory increases of products of the industry to, and subtracting depletions from, the consumption of that industry's products achieves the balance with gross output of the industry.

5. This section of the report is discussed much more fully in a document which is available upon request to the OBE.

6. Producers' prices have been defined to include Federal and State and local excise taxes collected and paid by the producer.

7. The basic unit of classification in the SIC is the establishment. An establishment is classified in an industry based on its principal activity. However, once an establishment is classified in an industry, its entire output, subsidiary as well as principal, is counted as part of the output of the industry. Its principal output, that which determines its industry classification, is called primary output; its other (subsidiary) output is called secondary.

8. Substitutability was determined on a judgmental basis using the following guide: the import should be interchangeable with a domestically produced item without any changes in the technology of the consuming industry or the resultant product.

9. Thus, secondary products and substitutable imports are added to both the inputs and outputs.

**Industry Classification of the 1963 Input-Output Tables**

The titles in bold face represent the groupings of industries used for the summary version of the 1963 tables and were also used in the 1958 and 1961 input-output tables prepared by the Office of Business Economics.

Industry number and title		Related SIC codes (1957 edition)
<b>AGRICULTURE, FORESTRY AND FISHERIES</b>		
<b>1 Livestock and livestock products</b>		
1. 01 Dairy farm products.....		0132, pt. 014, pt. 02.
1. 02 Poultry and eggs.....		0133, pt. 014, pt. 02.
1. 03 Meat animals and miscellaneous livestock products.....		0138, pt. 014, 0193, pt. 0729, pt. 02.
<b>2 Other agricultural products</b>		
2. 01 Cotton.....		0112, pt. 014, pt. 02.
2. 02 Food feed grains and grass seeds.....		0113, pt. 0119, pt. 014, pt. 02, pt. 0119, pt. 014, pt. 02.
2. 03 Tobacco.....		0122, pt. 014, pt. 02.
2. 04 Fruits and tree nuts.....		0123, pt. 0119, pt. 014, pt. 02.
2. 05 Vegetables, sugar and miscellaneous crops.....		0123, pt. 0119, pt. 014, pt. 02.
2. 06 Oil bearing crops.....		0119, pt. 014, pt. 02.
2. 07 Forest, greenhouse and nursery products.....		0192, pt. 014, pt. 02.
<b>3 Forestry and fishery products</b>		
3. 00 Forestry and fishery products.....		074, 081, 082, 084, 086, 091.
<b>4 Agricultural, forestry and fishery services</b>		
4. 00 Agricultural, forestry and fishery services.....		071, 0723, 073, pt. 0729, 085, 093.
<b>MINING</b>		
<b>5 Iron and ferroalloy ore mining</b>		
5. 00 Iron and ferroalloy ore mining.....		1011, 106.
<b>6 Nonferrous metal ore mining</b>		
6. 01 Copper ore mining.....		102.
6. 02 Nonferrous metal ores mining, except copper.....		103, 104, 105, 106, 109.
<b>7 Coal mining</b>		
7. 00 Coal mining.....		11, 12.
<b>8 Crude petroleum and natural gas</b>		
8. 00 Crude petroleum and natural gas.....		1311, 1321.
<b>9 Stone and clay mining and quarrying</b>		
9. 00 Stone and clay mining and quarrying.....		141, 142, 144, 145, 148, 149.
<b>10 Chemicals and fertilizer mineral mining</b>		
10. 00 Chemical and fertilizer mineral mining.....		147.
<b>CONSTRUCTION</b>		
<b>11 New construction</b>		
11. 01 New construction, residential buildings (nonfarm).....		pt. 15, pt. 16, pt. 17, pt. 0581.
11. 02 New construction, nonresidential buildings.....		pt. 15, pt. 17.
11. 03 New construction, public utilities.....		pt. 15, pt. 16, pt. 17.
11. 04 New construction, highways.....		pt. 16, pt. 17.
11. 05 New construction, all other.....		pt. 15, pt. 16, pt. 17, 138.
<b>12 Maintenance and repair construction</b>		
12. 01 Maintenance and repair construction, residential buildings (nonfarm).....		pt. 15, pt. 17.

**Industry Classification of the 1963 Input-Output Tables**

Industry number and title	Related SIC codes (1957 edition)
12. 02 Maintenance and repair construction, all other.....	pt. 15, pt. 16, pt. 17.
<b>MANUFACTURING</b>	
<b>13 Ordnance and accessories</b>	
13. 01 Complete guided missiles.....	1925.
13. 02 Ammunition, except for small arms, n.e.c. ....	1929.
13. 03 Tanks and tank components.....	1931.
13. 04 Sighting and fire control equipment.....	1941.
13. 05 Small arms.....	1951.
13. 06 Small arms ammunition.....	1961.
13. 07 Other ordnance and accessories.....	1911, 1999.
<b>14 Food and kindred products</b>	
14. 01 Meat products.....	201.
14. 02 Creamery butter.....	2021.
14. 03 Cheese, natural and processed.....	2022.
14. 04 Condensed and evaporated milk.....	2023.
14. 05 Ice cream and frozen desserts.....	2024.
14. 06 Fluid milk.....	2026.
14. 07 Canned and cured sea foods.....	2061.
14. 08 Canned specialties.....	2082.
14. 09 Canned fruits and vegetables.....	2033.
14. 10 Dehydrated food products.....	2084.
14. 11 Pickles, sauces and salad dressings.....	2035.
14. 12 Fresh or frozen packaged fish.....	2036.
14. 13 Frozen fruits and vegetables.....	2037.
14. 14 Flour and cereal preparations.....	2041, 2043, 2045.
14. 15 Prepared feeds for animals and fowls.....	2042.
14. 16 Rice milling.....	2044.
14. 17 Wet corn milling.....	2046.
14. 18 Bakery products.....	205.
14. 19 Sugar.....	206.
14. 20 Confectionary and related products.....	207.
14. 21 Alcoholic beverages.....	2082-5.
14. 22 Bottled and canned soft drinks.....	2086.
14. 23 Flavoring extracts and sirups, n.e.c. ....	2087.
14. 24 Cottonseed oil mills.....	2091.
14. 25 Soybean oil mills.....	2092.
14. 26 Vegetable oil mills, n.e.c. ....	2093.
14. 27 Animal and marine fats and oils.....	2094.
14. 28 Roasted coffee.....	2095.
14. 29 Shortening and cooking oils.....	2096.
14. 30 Manufactured ice.....	2097.
14. 31 Macaroni and spaghetti.....	2098.
14. 32 Food preparations, n.e.c. ....	2099.
<b>15 Tobacco manufactures</b>	
15. 01 Cigarettes, cigars, etc.....	2111, 2121, 2131.
15. 02 Tobacco stemming and redrying.....	2141.
<b>16 Broad and narrow fabrics, yarn and thread mills</b>	
16. 01 Broadwoven fabric mills and fabric finishing plants.....	2211, 2221, 2231, 2261, 2262.
16. 02 Narrow fabric mills.....	2241.
16. 03 Yarn mills and finishing of textiles, n.e.c. ....	2269, 2281-8.
16. 04 Thread mills.....	2284.
<b>17 Miscellaneous textile goods and floor coverings</b>	
17. 01 Floor coverings.....	227.
17. 02 Felt goods, n.e.c. ....	2291.
17. 03 Lace goods.....	2292.
17. 04 Paddings and upholstery fillings.....	2293.
17. 05 Processed textile waste.....	2294.
17. 06 Coated fabrics, not rubberized.....	2295.
17. 07 Tire cord and fabric.....	2296.
17. 08 Scouring and combing plants.....	2297.
17. 09 Cordage and twine.....	2298.
17. 10 Textile goods, n.e.c. ....	2299.
<b>18 Apparel</b>	
18. 01 Hosiery.....	2251, 2252.
18. 02 Knit apparel mills.....	2253, 2254, 2259.
18. 03 Knit fabric mills.....	2256.
18. 04 Apparel made from purchased materials.....	23 (excluding 239), 3092.
<b>19 Miscellaneous fabricated textile products</b>	
19. 01 Curtains and draperies.....	2291.

## Industry Classification of the 1963 Input-Output Tables

Industry number and title		Related SIC codes (1957 edition)
19. 02	Housefurnishings, n.e.c.	2392.
19. 03	Fabricated textile products, n.e.c.	2393-9.
20. 01	<b>20 Lumber and wood products, except containers</b>	
	Logging camps and logging contractors.	2411.
20. 02	Sawmills and planing mills, general.	2421.
20. 03	Hardwood dimensions and flooring.	2426.
20. 04	Special product sawmills, n.e.c.	2429.
20. 05	Millwork.	2431.
20. 06	Veneer and plywood.	2432.
20. 07	Prefabricated wood structures.	2433.
20. 08	Wood preserving.	2491.
20. 09	Wood products, n.e.c.	2499.
21. 00	<b>21 Wooden containers</b>	
	Wooden containers.	244.
22. 01	<b>22 Household furniture</b>	
	Wood household furniture.	2511, 2519.
22. 02	Upholstered household furniture.	2512.
22. 03	Metal household furniture.	2514.
22. 04	Mattresses and bedsprings.	2515.
23. 01	<b>23 Other furniture and fixtures</b>	
	Wood office furniture.	2521.
23. 02	Metal office furniture.	2522.
23. 03	Public building furniture.	2531.
23. 04	Wood partitions and fixtures.	2541.
23. 05	Metal partitions and fixtures.	2542.
23. 06	Venetian blinds and shades.	2591.
23. 07	Furniture and fixtures, n.e.c.	2599.
24. 00	<b>24 Paper and allied products except containers and boxes</b>	
	Pulp mills.	2611.
24. 02	Paper mills, except building paper.	2621.
24. 03	Paperboard mills.	2631.
24. 04	Envelopes.	2642.
24. 05	Sanitary paper products.	2647.
24. 06	Wallpaper and building paper and board mills.	2644, 2661.
24. 07	Converted paper, products, n.e.c., except containers and boxes.	2641, 2643, 2645, 2646, 2649.
25. 00	<b>25 Paperboard containers and boxes</b>	
	Paperboard containers and boxes.	265.
26. 01	<b>26 Printing and publishing</b>	
	Newspapers.	2711.
26. 02	Periodicals.	2721.
26. 03	Book printing and publishing.	273.
26. 04	Miscellaneous publishing.	2741.
26. 05	Commercial printing.	2751, 2752.
26. 06	Manifold business forms, blankbooks and binders.	2761, 2782.
26. 07	Greeting card publishing.	2771.
26. 08	Miscellaneous printing services.	2753, 2789, 279.
27. 01	<b>27 Chemicals and selected chemical products</b>	
	Industrial inorganic and organic chemicals.	281 excluding 28195.
27. 02	Fertilizers.	2871, 2872.
27. 03	Agricultural chemicals, n.e.c.	2879.
27. 04	Miscellaneous chemical products.	2861, 289.
28. 01	<b>28 Plastics and synthetic materials</b>	
	Plastics materials and resins.	2821.
28. 02	Synthetic rubber.	2822.
28. 03	Cellulosic man-made fibers.	2823.
28. 04	Organic fibers, noncellulosic.	2824.
29. 01	<b>29 Drugs, cleaning and toilet preparations</b>	
	Drugs.	283.
29. 02	Cleaning preparations.	284 excluding 2844.
29. 03	Toilet preparations.	2844.
30. 00	<b>30 Paints and allied products</b>	
	Paints and allied products.	2851.

## Industry Classification of the 1963 Input-Output Tables

Industry number and title		Related SIC codes (1957 edition)
31	<b>31 Petroleum refining and related industries</b>	
31. 01	Petroleum refining and related products.	2911, 299.
31. 02	Paving mixtures and blocks.	2951.
31. 03	Asphalt felts and coatings.	2952.
32	<b>32 Rubber and miscellaneous plastics products</b>	
32. 01	Tires and inner tubes.	3011.
32. 02	Rubber footwear.	3021.
32. 03	Reclaimed rubber and miscellaneous rubber products, n.e.c.	3031, 3069.
32. 04	Miscellaneous plastics products.	3079.
33	<b>33 Leather tanning and industrial leather products</b>	
33. 00	Leather tanning and industrial leather products.	3111, 3121.
34	<b>34 Footwear and other leather products</b>	
34. 01	Footwear cut stock.	3121.
34. 02	Footwear except rubber.	314.
34. 03	Other leather products.	3151, 3161, 317, 3199.
35	<b>35 Glass and glass products</b>	
35. 01	Glass and glass products except containers.	3211, 3229, 3231.
35. 02	Glass containers.	3221.
36	<b>36 Stone and clay products</b>	
36. 01	Cement, hydraulic.	3241.
36. 02	Brick and structural clay tile.	3251.
36. 03	Ceramic wall and floor tile.	3253.
36. 04	Clay refractories.	3255.
36. 05	Structural clay products, n.e.c.	3259.
36. 06	Vitreous plumbing fixtures.	3261.
36. 07	Food utensils, pottery.	3262, 3268.
36. 08	Porcelain electrical supplies.	3264.
36. 09	Pottery products, n.e.c.	3268.
36. 10	Concrete block and brick.	3271.
36. 11	Concrete products, n.e.c.	3272.
36. 12	Ready-mixed concrete.	3273.
36. 13	Lime.	3274.
36. 14	Gypsum products.	3275.
36. 15	Cut stone and stone products.	3281.
36. 16	Abrasive products.	3291.
36. 17	Asbestos products.	3292.
36. 18	Gaskets and insulations.	3293.
36. 19	Minerals, ground or treated.	3295.
36. 20	Mineral wool.	3296.
36. 21	Nonclay refractories.	3297.
36. 22	Nonmetallic mineral products, n.e.c.	3299.
37	<b>37 Primary iron and steel manufacturing</b>	
37. 01	Blast furnaces and basic steel products.	331.
37. 02	Iron and steel foundries.	332.
37. 03	Iron and steel forgings.	3391.
37. 04	Primary metal products, n.e.c.	3309.
38	<b>38 Primary nonferrous metals manufacturing</b>	
38. 01	Primary copper.	3331.
38. 02	Primary lead.	3322.
38. 03	Primary zinc.	3333.
38. 04	Primary aluminum.	3334, 25195.
38. 05	Primary nonferrous metals, n.e.c.	3339.
38. 06	Secondary nonferrous metals.	3341.
38. 07	Copper rolling and drawing.	3361.
38. 08	Aluminum rolling and drawing.	3352.
38. 09	Nonferrous rolling and drawing, n.e.c.	3356.
38. 10	Nonferrous wire drawing and insulating.	3357.
38. 11	Aluminum castings.	3361.
38. 12	Brass, bronze and copper castings.	3362.
38. 13	Nonferrous castings, n.e.c.	3369.
38. 14	Nonferrous forgings.	3392.
39	<b>39 Metal containers</b>	
39. 01	Metal cans.	3411.
39. 02	Metal barrels, drums and pails.	3491.
40	<b>40 Heating, plumbing and fabricated structural metal products</b>	
40. 01	Metal sanitary ware.	3431.
40. 02	Plumbing fittings and brass goods.	3432.

## Industry Classification of the 1963 Input-Output Tables

Industry number and title	Related SIC codes (1957 edition)
40.03 Heating equipment, except electric	3433.
40.04 Fabricated structural steel	3441.
40.05 Metal doors, sash and trim	3442.
40.06 Fabricated plate work (boiler shops)	3443.
40.07 Sheet metal work	3444.
40.08 Architectural metal work	3446.
40.09 Miscellaneous metal work	3449.
41 Screw machine products, bolts, nuts, etc. and metal stampings	
41.01 Screw machine products and bolts, nuts, rivets and washers	345.
41.02 Metal stampings	3461.
42 Other fabricated metal products	
42.01 Cutlery	3421.
42.02 Hand and edge tools including saws	3423, 3425.
42.03 Hardware, n.e.c.	3429.
42.04 Coating, engraving and allied services	3471, 3479.
42.05 Miscellaneous fabricated wire products	3481.
42.06 Safes and vaults	3492.
42.07 Steel springs	3493.
42.08 Pipe, valves and pipe fittings	3494, 3498.
42.09 Collapsible tubes	3496.
42.10 Metal foil and leaf	3497.
42.11 Fabricated metal products, n.e.c.	3499.
43 Engines and turbines	
43.01 Steam engines and turbines	3511.
43.02 Internal combustion engines, n.e.c.	3519.
44 Farm machinery	
44.00 Farm machinery	3522.
45 Construction, mining, oil field machinery equipment	
45.01 Construction machinery	3531.
45.02 Mining machinery	3532.
45.03 Oil field machinery	3533.
46 Materials handling machinery and equipment	
46.01 Elevators and moving stairways	3534.
46.02 Conveyors and conveying equipment	3535.
46.03 Hoists, cranes and monorails	3536.
46.04 Industrial trucks and tractors	3537.
47 Metalworking machinery and equipment	
47.01 Machine tools, metal cutting types	3541.
47.02 Machine tools, metal forming types	3542.
47.03 Special dies and tools and machine tool accessories	3544, 3545.
47.04 Metalworking machinery, n.e.c.	3548.
48 Special industry machinery and equipment	
48.01 Food products machinery	3551.
48.02 Textile machinery	3552.
48.03 Woodworking machinery	3553.
48.04 Paper industries machinery	3554.
48.05 Printing trades machinery	3555.
48.06 Special industry machinery, n.e.c.	3559.
49 General industrial machinery and equipment	
49.01 Pumps and compressors	3561.
49.02 Ball and roller bearings	3562.
49.03 Blowers and fans	3564.
49.04 Industrial patterns	3565.
49.05 Power transmission equipment	3568.
49.06 Industrial furnaces and ovens	3567.
49.07 General industrial machinery, n.e.c.	3569.
50 Machine shop products	
50.00 Machine shop products	359.
51 Office, computing and accounting machines	
51.01 Computing and related machines	3571.

## Industry Classification of the 1963 Input-Output Tables

Industry number and title	Related SIC codes (1957 edition)
51.02 Typewriters	3572.
51.03 Scales and balances	3576.
51.04 Office machines, n.e.c.	3579.
52 Service industry machines	
52.01 Automatic merchandising machines	3581.
52.02 Commercial laundry equipment	3582.
52.03 Refrigeration machinery	3585.
52.04 Measuring and dispensing pumps	3586.
52.05 Service industry machines, n.e.c.	3589.
53 Electric transmission and distribution equipment and electrical industrial apparatus	
53.01 Electric measuring instruments	3611.
53.02 Transformers	3612.
53.03 Switchgear and switchboard apparatus	3613.
53.04 Motors and generators	3621.
53.05 Industrial controls	3622.
53.06 Welding apparatus	3623.
53.07 Carbon and graphite products	3624.
53.08 Electrical industrial apparatus, n.e.c.	3629.
54 Household appliances	
54.01 Household cooking equipment	3631.
54.02 Household refrigerators and freezers	3632.
54.03 Household laundry equipment	3633.
54.04 Electric housewares and fans	3684.
54.05 Household vacuum cleaners	3685.
54.06 Sewing machines	3686.
54.07 Household appliances, n.e.c.	3689.
55 Electric lighting and wiring equipment	
55.01 Electric lamps	3641.
55.02 Lighting fixtures	3642.
55.03 Wiring devices	3643, 3644.
56 Radio, television and communication equipment	
56.01 Radio and television receiving sets	3651.
56.02 Phonograph records	3652.
56.03 Telephone and telegraph apparatus	3661.
56.04 Radio and television communication equipment	3662.
57 Electronic components and accessories	
57.01 Electron tubes	3671, 3672, 3673.
57.02 Semiconductors	3674.
57.03 Electronic components, n.e.c.	3679.
58 Miscellaneous electrical machinery, equipment and supplies	
58.01 Storage batteries	3691.
58.02 Primary batteries, wet and dry	3692.
58.03 X-ray apparatus and tubes	3693.
58.04 Engine electrical equipment	3694.
58.05 Electrical equipment, n.e.c.	3699.
59 Motor vehicles and equipment	
59.01 Truck and bus bodies	3713.
59.02 Truck trailers	3715.
59.03 Motor vehicles and parts	3717.
60 Aircraft and parts	
60.01 Aircraft	3721.
60.02 Aircraft engines and parts	3722.
60.03 Aircraft propellers and parts	3723.
60.04 Aircraft equipment, n.e.c.	3729.
61 Other transportation equipment	
61.01 Shipbuilding and repairing	3731.
61.02 Boatbuilding and repairing	3732.
61.03 Locomotives and parts	3741.
61.04 Railroad and street cars	3742.
61.05 Motorcycles, bicycles and parts	3751.
61.06 Trailers coaches	3791.
61.07 Transportation equipment, n.e.c.	3799.
62 Professional, scientific and controlling instruments and supplies	
62.01 Engineering and scientific instruments	3811.

## Industry Classification of the 1963 Input-Output Tables

	Industry number and title	Related SIC codes (1957 edition)
62. 02	Mechanical measuring devices.....	3831.
62. 03	Automatic temperature controls.....	3832.
62. 04	Surgical and medical instruments.....	3841.
62. 05	Surgical appliances and supplies.....	3842.
62. 06	Dental equipment and supplies.....	3843.
62. 07	Watches, clocks and parts.....	387.
63	Optical, ophthalmic and photographic equipment and supplies	
63. 01	Optical instruments and lenses.....	3881.
63. 02	Ophthalmic goods.....	3881.
63. 03	Photographic equipment and supplies.....	3881.
64	Miscellaneous manufacturing	
64. 01	Jewelry, including costume, and silverware.....	391, 3961.
64. 02	Musical instruments and parts.....	3931.
64. 03	Games, toys, etc.....	3941, 3942, 3943.
64. 04	Sporting and athletic goods, n.e.c.....	3949.
64. 05	Pens, pencils, etc.....	395.
64. 06	Artificial flowers.....	3962.
64. 07	Buttons, needles, pins and fasteners.....	3963, 3964.
64. 08	Brooms and brushes.....	3981.
64. 09	Hard surface floor covering.....	3982.
64. 10	Morticians' goods.....	3988.
64. 11	Signs and advertising displays.....	3983, 3984, 3987.
64. 12	Miscellaneous manufactures, n.e.c.....	3995, 3996.
<b>TRANSPORTATION, COMMUNICATION, ELECTRIC, GAS, AND SANITARY SERVICES</b>		
65	Transportation and warehousing	
65. 01	Railroads and related services.....	40, 474.
65. 02	Local, suburban and interurban highway passenger transportation.....	41.
65. 03	Motor freight transportation and warehousing.....	42, 478.
65. 04	Water transportation.....	44.
65. 05	Air transportation.....	45.
65. 06	Pipe line transportation.....	46.
65. 07	Transportation services.....	47, excluding 473, 474.
66	Communications, except radio and television broadcasting	
66. 00	Communications, except radio and television.....	48, excluding 483.
67	Radio and television broadcasting	
67. 00	Radio and television broadcasting.....	483.
68	Electric, gas, water and sanitary services	
68. 01	Electric utilities.....	491, pt. 493.
68. 02	Gas utilities.....	492, pt. 493.
68. 03	Water and sanitary services.....	494, 495, 496, 497, pt. 493.
<b>WHOLESALE AND RETAIL TRADE</b>		
69	Wholesale and retail trade	
69. 01	Wholesale trade.....	50 (excluding manufacturers' sales offices).
69. 02	Retail trade.....	52, 53, 54, 55, 56, 57, 58, 59, 7396.
<b>FINANCE, INSURANCE AND REAL ESTATE</b>		
70	Finance and insurance	
70. 01	Banking.....	60.
70. 02	Credit agencies.....	61, 67.
70. 03	Security and commodity brokers.....	62.
70. 04	Insurance carriers.....	63.
70. 05	Insurance agents and brokers.....	64.
71	Real estate and rental	
71. 01	Owner-occupied dwellings.....	65 (excluding pt. 6561), 66.
71. 02	Real estate.....	

## Industry Classification of the 1963 Input-Output Tables

	Industry number and title	Related SIC codes (1957 edition)
<b>SERVICES</b>		
72	Hotels and lodging places; personal and repair services, except automobile repair	
72. 01	Hotels and lodging places.....	70.
72. 02	Personal and repair services except auto repair and barber and beauty shops.....	72 (excluding 723, 724) 76 (excluding 7694 and pt. 7699).
72. 03	Barber and beauty shops.....	723, 724.
73	Business services	
73. 01	Miscellaneous business services.....	73 (excluding 731, 7396), 7894, pt. 7699.
73. 02	Advertising.....	731.
73. 03	Miscellaneous professional services.....	81, 89 (excluding 8921).
74	Research and development	
	Eliminated as a separate industry in the 1963 study. Research and development performed for sale is distributed to the purchaser by each of the industries performing the research and development.	
75	Automobile repair and services	
	Automobile repair and services.....	75.
76	Amusements	
76. 01	Motion pictures.....	78.
76. 02	Amusement and services.....	79.
77	Medical, educational services and nonprofit organizations	
77. 01	Doctors and dentists.....	801, 802, 803, 804.
77. 02	Hospitals.....	8061.
77. 03	Other medical and health services.....	8722, 807, 809.
77. 04	Educational services.....	82.
77. 05	Nonprofit organizations.....	84, 86, 8921.
<b>GOVERNMENT ENTERPRISES</b>		
78	Federal Government enterprises	
78. 01	Post Office.....	
78. 02	Federal electric utilities.....	
78. 03	Commodity Credit Corporation.....	
78. 04	Other Federal Government enterprises.....	
79	State and local government enterprises	
79. 01	Local government passenger transit.....	
79. 02	State and local electric utilities.....	
79. 03	Other state and local government enterprises.....	
<b>IMPORTS</b>		
80	Gross imports of goods and services	
80. 01	Directly allocated imports.....	
80. 02	Transferred imports.....	
<b>DUMMY INDUSTRIES</b>		
81	Business travel, entertainment and gifts	
81. 00	Business travel, entertainment and gifts.....	
82	Office supplies	
82. 00	Office supplies.....	
83	Scrap, used and secondhand goods	
83. 00	Scrap, used and secondhand goods.....	
<b>SPECIAL INDUSTRIES</b>		
84	Government industry	
84. 00	Government industry.....	
85	Rest of the world industry	
85. 00	Rest of the world industry.....	
86	Household industry	
86. 00	Household industry.....	

Source: U.S. Department of Commerce, Office of Business Economics.

## SURVEY OF CURRENT BUSINESS

November 1960

Table 1.—Interindustry

(In millions of dollars at producer's prices)

Industry No.	For the distribution of output of an industry, read the row for that industry. For the composition of inputs to an industry, read the column for that industry.												
	Livestock and live-stock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry and fishery services	Iron and forestry tree planting	Nonferrous metals mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mining	New construction	Businesses and rapid construction	Ordnance and supplies
	1	2	3	4	5	6	7	8	9	10	11	12	13
1. Livestock & Livestock Products	4,756	1,339	117	152							828	(*)	
2. Other Agricultural Products	7,307	760	117	550							8	(*)	
3. Forestry & Fishery Products			85										
4. Agricultural, Forestry & Fishery Services	445	1,063	74		56	1	(*)	(*)	(*)	1			
5. Iron & Ferroalloy Ore Mining					25	248	1	(*)	(*)	1			
6. Nonferrous Metal Ore Mining					6	1	(*)	(*)	(*)	1			
7. Coal Mining	6	1			5	1	(*)	(*)	(*)	1			1
8. Crude Petroleum & Natural Gas													
9. Stone and Clay Mining and Quarrying	1	55	(*)		0	(*)	0	1		17	6	478	258
10. Chemical & Fertilizer Mineral Mining		35					(*)			1	31		
11. New Construction						1	7	14	879	11	3	17	7
12. Maintenance & Repair Construction	200	307										7	6
13. Ordnance & Accessories												(*)	184
14. Food & Kindred Products	4,554	2	44	36							26		
15. Tobacco Manufacture			1										
16. Broad & Narrow Fabrics, Yarn & Thread Mills												31	(*)
17. Miscellaneous Textile Goods & Floor Coverings	8	28	62	41	(*)	333	(*)	2	(*)	(*)	124	3	(*)
18. Apparel											28	13	4
19. Miscellaneous Fabricated Textile Products	17	45	1			2	10	17	(*)	(*)	7	(*)	
20. Lumber & Wood Products, Except Containers	2	2	97		14						2,553	723	16
21. Wooden Containers												5	5
22. Household Furniture													(*)
23. Other Furniture & Fixtures											245	4	2
24. Paper & Allied Products, Except Containers	12	1	(*)	(*)	(*)	1	1	2	6	2	208	73	27
25. Paperboard Containers & Boxes		3	36								4	2	1
26. Printing & Publishing											281	2	1
27. Chemicals & Selected Chemical Products	5	9	(*)	(*)	21	(*)	3	2	(*)	(*)	90	1	16
28. Plastics & Synthetic Materials	47	1,624	2	1	21	56	38	101	34	90	287	34	15
29. Drugs, Cleaning & Toilet Preparations			(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	208	2	1
30. Paints & Allied Products			4		11	7	20	44	52	5	1,113	540	13
31. Petroleum Refining & Related Industries	170	394	24	3	11	7	20	44	52	5	297	189	108
32. Rubber & Miscellaneous Plastic Products	29	114	1	(*)	7	10	39	10	70	2	(*)	(*)	
33. Leather Tanning & Industrial Leather Products											1	(*)	
34. Footwear & Other Leather Products			(*)	2	(*)	(*)	(*)	(*)	(*)	(*)	61	35	
35. Glass & Glass Products											5,552	410	(*)
36. Stone & Clay Products	1	39	(*)	(*)	4	21	28	38	38	2	2,125	517	140
37. Primary Iron & Steel Manufacturing					1	(*)	(*)			2	1,244	285	133
38. Metal Containers	8	13	21										
39. Heating, Plumbing & Structural Metal Products											0,139	569	16
40. Stamping, Screw Machine Products & Bolts											113	19	26
41. Other Fabricated Metal Products	21	41	15	132	1	4	12	13	4	1	573	26	3
42. Engines & Turbines											22		
43. Farm Machinery & Equipment													(*)
44. Construction, Mining & Oil Field Machinery											238	71	8
45. Material Handling Machinery & Equipment											237	96	1
46. Metalworking Machinery & Equipment											11	(*)	22
47. Special Industry Machinery & Equipment													
48. General Industrial Machinery & Equipment											210	49	20
49. Machine Shop Products	3	7	(*)	(*)	(*)	82	11	(*)	3	2	12	1	13
50. Office, Computing & Accounting Machines											404	116	10
51. Service Industry Machines											347	58	26
52. Electric Industrial Equipment & Apparatus											1,122	388	45
53. Household Appliances											79	20	22
54. Electric Lighting & Wiring Equipment	1	1	38	(*)	(*)	1	1	11	1	1	1	1	1
55. Radio, Television & Communication Equipment											1,122	388	45
56. Electronic Components & Accessories											1	1	104
57. Miscellaneous Electrical Machinery, Equipment & Supplies	6	29	2	(*)	2	9	1	1	1	1	37	10	15
58. Motor Vehicles & Equipment	7	14	(*)	(*)	2	9	1	1	1	1	26	14	1
59. Aircraft & Parts												1,068	
60. Other Transportation Equipment													17
61. Scientific & Controlling Instruments											206	78	48
62. Optical, Ophthalmic & Photographic Equipment											88	77	1
63. Miscellaneous Manufacturing	2	2	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)			
64. Transportation & Warehousing		363	44	36	126	80	46	361	34	28	2,143	490	28
65. Communications; Except Radio & TV Broadcasting	52	68	1	2	1	2	1	1	1	3	150	79	22
66. Radio & TV Broadcasting													
67. Electric, Gas, Water & Sanitary Services	98	264	(*)	1	27	41	85	141	62	36	205	50	36
68. Wholesale & Retail Trade	370	648	58	42	21	29	58	145	54	34	5,453	1,702	98
69. Finance & Insurance	156	315	3	5	7	25	28	26	46	4	501	101	27
70. Real Estate & Rental	238	3,620	41	111	49	75	2,246	45	11	207	134	26	
71. Hotels; Personal & Repair Services etc. Auto.	125	556	1	(*)	38	14	28	180	22	6	2,356	281	116
72. Business Services	78	161	7	1	1	2	8	42	19	1	284	103	8
73. Automobile Repair & Services													
74. Amusement													
75. Medical, Educational Services & Nonprofit Organizations	181	18									67	34	8
76. Federal Government Enterprises	4	4	(*)	(*)	(*)	2	2	6	(*)	2	12	8	10
77. State & Local Government Enterprises	(*)	1	(*)	(*)	(*)	1	1	6	2	1	26	10	(*)
78. Directly Allocated Imports	2	214											
79. Transferred Imports	176	261	428		328	328	2	1,046	106	59			15
80. Business Travel, Entertainment & Gifts	18	22	19	18	9	7	11	67	11	3	269	181	69
81. Office Supplies	1	1	(*)	(*)	(*)	5	1	1	1	1	17	7	10
82. Scrap, Used & Secondhand Goods													
83. Government Industry													
84. Rest of the World Industry													
85. Household Industry													
86. Inventory Valuation Adjustment													
I. Intermediate Inputs, Total	10,492	12,457	1,183	1,190	984	926	1,007	5,288	961	236	33,629	4,668	1,777
V.A. Value Added	6,992	14,680	598	582	475	526	1,580	6,226	1,128	286	36,260	11,122	2,526
T. Total	34,594	37,286	1,761	1,772	1,429	1,519	2,627	12,264	2,924	496	65,519	15,794	4,382
TR. Transfers	210	261	706	556	237	5	1,006	205	178				1,568

\* Less than \$100,000.

1. Entry in each column represents the sum of the value of transferred imports at domestic port value and the value of the secondary output of other industries which has been transferred to the industry named at the head of the column. See text for further discussion.

3. The detailed entries reflect gross exports of goods and services from each producing industry. Imports in total are shown as negative entries in this column on rows 8A and 8B. Therefore, the sum of the column equals the GNP component "net exports of goods and services."

Transactions, 1968

(In millions of dollars at producers' prices)

3. Entry in each row represents the value of the secondary output of the industry named at the beginning of the row which has been transferred to the primary producing industries. See text for further discussion.

Note.—Detail may not add due to rounding.

**Source:** U.S. Department of Commerce, Office of Business Economics.

## SURVEY OF CURRENT BUSINESS

November 1949

Table 1.—Interindustry

(In millions of dollars at producers' prices)

Industry No.	For the distribution of output of an industry, read the row for that industry. For the composition of inputs to an industry, read the column for that industry.												Construction, mining and oil-field machinery																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	Leather, Tanning and Industrial Leather Products			Footwear and other leather products			Glass and glass products			Stone and clay products			Primary Iron and steel manufacturing			Primary nonferrous metal manufacturing			Metal containers			Housing, plumbing, and structural metal products			Stampings, screw machine products and bolts			Other fabricated metal products			Engines and turbines			Farm machinery and equipment			Construction, mining and oil-field machinery																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	10010	10011	10012	10013	10014	10015	10016	10017	10018	10019	10020	10021	10022	10023	10024	10025	10026	10027	10028	10029	10030	10031	10032	10033	10034	10035	10036	10037	10038	10039	10040	10041	10042	10043	10044	10045	10046	10047	10048	10049	10050	10051	10052	10053	10054	10055	10056	10057	10058	10059	10060	10061	10062	10063	10064	10065	10066	10067	10068	10069	10070	10071	10072	10073	10074	10075	10076	10077	10078	10079	10080	10081	10082	10083	10084	10085	10086	10087	10088	10089	10090	10091	10092	10093	10094	10095	10096	10097	10098	10099	100100	100101	100102	100103	100104	100105	100106	100107	100108	100109	100110	100111	100112	100113	100114	100115	100116	100117	100118	100119	100120	100121	100122	100123	100124	100125	100126	100127	100128	100129	100130	100131	100132	100133	100134	100135	100136	100137	100138	100139	100140	100141	100142	100143	100144	100145	100146	100147	100148	100149	100150	100151	100152	100153	100154	100155	100156	100157	100158	100159	100160	100161	100162	100163	100164	100165	100166	100167	100168	100169

## SURVEY OF CURRENT BUSINESS

## Transactions, 1968—Continued

(In millions of dollars at producers' prices)

Materials handling machinery and equipment	Metalworking machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Machine shop products	Office, computing and assembling machines	Service industry machinery	Electro-industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Radio, television and communication equipment	Electro components and accessories	Miscellaneous electrical equipment and supplies	Motor vehicles and equipment	Automobiles and parts	Other transportation equipment	Scientific and electronic controlling instruments	Optical, photographic and photographic equipment	Miscellaneous manufacturing	Industry No.
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
(*)	1	1	1	1	(*)	1	1	2	1	1	(*)	1	10	2	2	1	1	1	1
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	2	2	2	(*)	2	(*)	(*)
(*)	11	8	3	6	7	9	5	10	11	10	2	71	22	7	9	4	15	11	11
(*)	12	12	13	14	15	16	17	18	19	20	21	(*)	207	7	9	14	12	13	12
(*)	13	13	14	15	16	17	18	19	20	21	22	23	15	16	17	18	19	16	17
(*)	14	14	15	16	17	18	19	20	21	22	23	24	15	16	17	18	19	16	17
(*)	15	15	16	17	18	19	20	21	22	23	24	25	15	16	17	18	19	16	17
(*)	16	16	17	18	19	20	21	22	23	24	25	26	15	16	17	18	19	16	17
(*)	17	17	18	19	20	21	22	23	24	25	26	27	15	16	17	18	19	16	17
(*)	18	18	19	20	21	22	23	24	25	26	27	28	15	16	17	18	19	16	17
(*)	19	19	20	21	22	23	24	25	26	27	28	29	15	16	17	18	19	16	17
(*)	20	20	21	22	23	24	25	26	27	28	29	30	15	16	17	18	19	16	17
(*)	21	21	22	23	24	25	26	27	28	29	30	31	15	16	17	18	19	16	17
(*)	22	22	23	24	25	26	27	28	29	30	31	32	15	16	17	18	19	16	17
(*)	23	23	24	25	26	27	28	29	30	31	32	33	15	16	17	18	19	16	17
(*)	24	24	25	26	27	28	29	30	31	32	33	34	15	16	17	18	19	16	17
(*)	25	25	26	27	28	29	30	31	32	33	34	35	15	16	17	18	19	16	17
(*)	26	26	27	28	29	30	31	32	33	34	35	36	15	16	17	18	19	16	17
(*)	27	27	28	29	30	31	32	33	34	35	36	37	15	16	17	18	19	16	17
(*)	28	28	29	30	31	32	33	34	35	36	37	38	15	16	17	18	19	16	17
(*)	29	29	30	31	32	33	34	35	36	37	38	39	15	16	17	18	19	16	17
(*)	30	30	31	32	33	34	35	36	37	38	39	40	15	16	17	18	19	16	17
(*)	31	31	32	33	34	35	36	37	38	39	40	41	15	16	17	18	19	16	17
(*)	32	32	33	34	35	36	37	38	39	40	41	42	15	16	17	18	19	16	17
(*)	33	33	34	35	36	37	38	39	40	41	42	43	15	16	17	18	19	16	17
(*)	34	34	35	36	37	38	39	40	41	42	43	44	15	16	17	18	19	16	17
(*)	35	35	36	37	38	39	40	41	42	43	44	45	15	16	17	18	19	16	17
(*)	36	36	37	38	39	40	41	42	43	44	45	46	15	16	17	18	19	16	17
(*)	37	37	38	39	40	41	42	43	44	45	46	47	15	16	17	18	19	16	17
(*)	38	38	39	40	41	42	43	44	45	46	47	48	15	16	17	18	19	16	17
(*)	39	39	40	41	42	43	44	45	46	47	48	49	15	16	17	18	19	16	17
(*)	40	40	41	42	43	44	45	46	47	48	49	50	15	16	17	18	19	16	17
(*)	41	41	42	43	44	45	46	47	48	49	50	51	15	16	17	18	19	16	17
(*)	42	42	43	44	45	46	47	48	49	50	51	52	15	16	17	18	19	16	17
(*)	43	43	44	45	46	47	48	49	50	51	52	53	15	16	17	18	19	16	17
(*)	44	44	45	46	47	48	49	50	51	52	53	54	15	16	17	18	19	16	17
(*)	45	45	46	47	48	49	50	51	52	53	54	55	15	16	17	18	19	16	17
(*)	46	46	47	48	49	50	51	52	53	54	55	56	15	16	17	18	19	16	17
(*)	47	47	48	49	50	51	52	53	54	55	56	57	15	16	17	18	19	16	17
(*)	48	48	49	50	51	52	53	54	55	56	57	58	15	16	17	18	19	16	17
(*)	49	49	50	51	52	53	54	55	56	57	58	59	15	16	17	18	19	16	17
(*)	50	50	51	52	53	54	55	56	57	58	59	60	15	16	17	18	19	16	17
(*)	51	51	52	53	54	55	56	57	58	59	60	61	15	16	17	18	19	16	17
(*)	52	52	53	54	55	56	57	58	59	60	61	62	15	16	17	18	19	16	17
(*)	53	53	54	55	56	57	58	59	60	61	62	63	15	16	17	18	19	16	17
(*)	54	54	55	56	57	58	59	60	61	62	63	64	15	16	17	18	19	16	17
(*)	55	55	56	57	58	59	60	61	62	63	64	65	15	16	17	18	19	16	17
(*)	56	56	57	58	59	60	61	62	63	64	65	66	15	16	17	18	19	16	17
(*)	57	57	58	59	60	61	62	63	64	65	66	67	15	16	17	18	19	16	17
(*)	58	58	59	60	61	62	63	64	65	66	67	68	15	16	17	18	19	16	17
(*)	59	59	60	61	62	63	64	65	66	67	68	69	15	16	17	18	19	16	17
(*)	60	60	61	62	63	64	65	66	67	68	69	70	15	16	17	18	19	16	17
(*)	61	61	62	63	64	65	66	67	68	69	70	71	15	16	17	18	19	16	17
(*)	62	62	63	64	65	66	67	68	69	70	71	72	15	16	17	18	19	16	17
(*)	63	63	64	65	66	67	68	69	70	71	72	73	15	16	17	18	19	16	17
(*)	64	64	65	66	67	68	69	70	71	72	73	74	15	16	17	18	19	16	17
(*)	65	65	66	67	68	69	70	71	72	73	74	75	15	16	17	18	19	16	17
(*)	66	66	67	68	69	70	71	72	73	74	75	76	15	16	17	18	19	16	17
(*)	67	67	68	69	70	71	72	73	74	75	76	77	15	16	17	18	19	16	17
(*)	68	68	69	70	71	72	73	74	75	76	77	78	15	16	17	18	19	16	17
(*)	69	69	70	71	72	73	74	75	76	77	78	79	15	16	17	18	19	16	17
(*)	70	70	71	72	73	74	75	76	77	78	79	80	15	16	17	18	19	16	17
(*)	71	71	72	73	74	75	76	77	78	79	80	81	15	16	17	18	19	16	17
(*)	72	72	73	74	75	76	77	78	79	80	81	82	15	16	17	18	19	16	17
(*)	73	73	74	75	76	77	78	79	80	81	82	83	15	16	17	18	19	16	17
(*)	74	74	75	76	77	78	79	80	81	82	83	84	15	16	17	18	19	16	17
(*)	75	75	76	77	78	79	80	81	82	83	84	85	15	16	17	18	19	16	17
(*)	76	76	77	78	79	80	81	82	83	84	85	86	15	16	17	18	19	16	17
(*)	77	77	78	79	80	81	82	83	84	85	86	87	15	16	17	18	19	16	17
(*)	78	78	79	80	81	82	83	84	85	86	87	88	15	16	17	18	19	16	17
(*)	79	79	80	81	82	83	84	85											

Table 1.—Interindustry

<sup>1</sup>In millions of dollars at producers' prices.

## SURVEY OF CURRENT BUSINESS

## Transactions, 1968—Continued

(In millions of dollars at producer's prices)

70	State and local govern- ment enterprises	Gross imports of goods and services		Business travel, entertain- ment and gifts		Office Supplies		Scrap used and second- hand goods		Government Industry		Rest of the world industry		Research Industry		Inventory valuation adjustment		Intermediate output, total		Final Demand						11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	9

Table 2. Direct Requirements

Industry No.	Producers' prices										New construction
	Livestock and live stock products	Other agricultural products	Forestry and fishery products	Agricultural, for- estary and fishery services	Nonmetallic ores mining	Nonferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mining	
	1	2	3	4	5	6	7	8	9	10	
For the composition of inputs to an industry, read the column for that industry.											
1 Livestock & Livestock Products	0.17900	0.00073	0.00087	0.10423							0.00493
2 Other Agricultural Products	0.28986	0.00119	0.00088	0.35040							
3 Forestry & Fishery Products			0.00092								
4 Agricultural, Forestry & Fishery Services	0.01667	0.00053	0.00148			0.00046	0.00029	0.00004			0.00015
5 Iron & Ferroalloy Ores Mining											
6 Nonferrous Metal Ores Mining							0.01783	0.17582	0.00010	0.00003	0.00225
7 Coal Mining		0.00021	0.00003			0.00041	0.00020	0.15681	(*)	0.00227	0.00087
8 Crude Petroleum & Natural Gas											
9 Stone and Clay Mining and Quarrying		0.00006	0.00111		(*)	0.00039	0.00028	0.00026			0.00229
10 Chemical & Fertilizer Mineral Mining						0.00008	0.00003				
11 New Construction											
12 Maintenance & Repair Construction		0.00750	0.01444			0.00080	0.00011	0.00549	0.00006	0.00445	0.00004
13 Ordnance & Accessories											
14 Food & Kindred Products		0.33310	0.00006	0.02339	0.01683						0.00010
15 Tobacco Manufactures											0.00007
16 Broad & Narrow Fabrics, Yarn & Thread Mills			0.00034			0.00001	0.00019				0.00443
17 Miscellaneous Textile Goods & Floor Coverings		0.00035	0.00106	0.00336	0.02336	(*)	0.00010	0.00017			0.00199
18 Apparel							0.00001				0.00044
19 Miscellaneous Fabricated Textile Products		0.00006	0.00158	0.00072							0.00111
20 Lumber & Wood Products, Except Containers			0.00008			0.00180	0.00051	0.00036	0.00001	0.00002	0.00042
21 Wooden Containers						0.00356	0.00038				0.00223
22 Household Furniture											0.00281
23 Other Furniture & Fixtures											0.00008
24 Paper & Allied Products Except Containers		0.00044	0.00004	0.00022	0.00009	0.00015	0.00026	0.00038	0.00014	0.00287	0.00117
25 Paperboard Containers & Boxes		0.00006	0.00011		0.00077						0.00007
26 Printing & Publishing		0.00018	0.00032	0.00020	0.00021	0.00002	0.00005	0.00002	0.00003	0.00004	0.00003
27 Chemicals & Selected Chemical Products		0.00218	0.00234	0.00061	0.00061	0.00087	0.00059	0.00043	0.00022	0.00022	0.00007
28 Plastics & Synthetic Materials							0.00009			0.00011	0.00002
29 Drugs, Cleaning & Toilet Preparations		0.00010		(*)	(*)	(*)	0.00001	(*)		0.00001	0.00025
30 Paints & Allied Products					0.00050	(*)	0.00001	(*)		0.00002	0.00009
31 Petroleum Refining & Related Industries		0.00036	0.00449	0.01336	0.01935	0.00195	0.00737	0.0482	0.00088	0.00224	0.00223
32 Rubber & Miscellaneous Plastics Products		0.00009	0.00019	0.00004		0.00073	0.00011	0.00011	0.01233	0.01233	0.00143
33 Leather Tanning & Industrial Leather Products											0.00001
34 Footwear & Other Leather Products		0.00027		(*)	0.00158	(*)	0.00001	(*)		0.00001	0.00001
35 Glass & Glass Products		0.00020									0.00123
36 Stone & Clay Products											
37 Primary Iron & Steel Manufacturing		0.00006	0.00143	0.00028	(*)	0.00261	0.01112	0.01118	0.00003	0.00715	0.00066
38 Primary Nonferrous Metal Manufacturing						0.00003	0.01777	0.01486	0.00343	0.01474	0.00244
39 Metal Containers		0.00008	0.00046	0.01216			0.00002	0.00005	0.00003	0.00116	0.00287
40 Heating, Plumbing & Structural Metal Products							0.00022	0.00009		0.00150	0.00000
41 Stamping, Screw Machine Products & Bolts		0.00008									0.00171
42 Other Fabricated Metal Products		0.00007	0.00135	0.00081	0.02430	0.00004	0.00049	0.00486	0.00107	0.00220	0.00049
43 Engines & Turbines						0.00005	0.00048	0.00049	0.01209	0.01338	0.00463
44 Farm Machinery & Equipment		0.00000	0.00040				0.00074	0.00064	0.00010	0.00000	0.00002
45 Construction, Mining & Oil Field Machinery								0.00015	0.00228		0.00002
46 Materials Handling Machinery & Equipment							0.00003	0.00037	0.00122		0.00007
47 Metalworking Machinery & Equipment									0.00002		
48 Special Industry Machinery & Equipment											
49 General Industrial Machinery & Equipment											
50 Machine Shop Products		0.00011	0.00024	0.00011	0.00001	0.00014	0.00048	0.00070	0.00006	0.01130	0.00240
51 Office, Computing & Accounting Machines							0.00016	0.00016	0.00008	0.00008	0.00006
52 Service Industry Machines								0.00004	0.00043	0.00278	0.00068
53 Electric Industrial Equipment & Apparatus									0.00004	0.00087	0.00004
54 Household Appliances										0.00002	0.00000
55 Electric Lighting & Wiring Equipment		0.00003	0.00005	0.00013	0.00001	0.00018	0.00040	0.00118	0.00041	0.00002	0.00000
56 Radio, Television & Communication Equipment							0.00004	0.00013		0.00003	0.00000
57 Electronic Components & Accessories								(*)	0.00139		0.00002
58 Miscellaneous Electrical Machinery, Equipment & Supplies		0.00023	0.00003	0.00105	0.00001	0.00017	0.00018	0.00039	0.00007	0.00060	0.00066
59 Motor Vehicles & Equipment		0.00035	0.00003	0.00023	0.00003	0.00156	0.00155	0.00001	0.00027	0.00724	0.00056
60 Aircraft & Parts						0.00022					
61 Other Transportation Equipment			(*)	0.00025	0.00184		0.00006	0.00123	0.00337		0.00006
62 Scientific & Controlling Instruments					0.00040		0.00023	0.00033			0.00007
63 Optical, Ophthalmic & Photographic Equipment											0.00007
64 Miscellaneous Manufacturing											0.00005
65 Transportation & Warehousing											0.00001
66 Communications, Except Radio & TV Broadcasting								0.00001	0.00115	0.00134	0.00002
67 Radio & TV Broadcasting		0.00006	0.00003						0.00070	0.00000	0.00403
68 Electric, Gas, Water & Sanitary Services		0.00000	0.00149	0.00000	0.00045		0.00008	0.00027	0.00000	0.00000	0.00015
69 Wholesale & Retail Trade		0.00000	0.00000	0.00215	0.02232	0.01502	0.02227	0.01199	0.01180	0.00000	0.00000
70 Finance & Insurance		0.00000	0.00165	0.00088	0.00332	0.00476	0.00357	0.01076	0.00783	0.01423	0.00832
71 Real Estate & Rental		0.00062	0.07407			0.02324	0.07753	0.07748	0.02600	0.18319	0.02213
72 Hotels; Personal & Repair Services exc. Auto.		0.00010	0.00068	0.00028	0.00012	0.02282	0.00023	0.01080	0.00881	0.01076	0.00882
73 Business Services		0.00035	0.00000	0.00020	0.00023	0.00017	0.00023	0.01080	0.00881	0.01076	0.00882
74 Automobile Repair & Service		0.00035	0.00000	0.00027	0.00031	0.00073	0.00151	0.00292	0.00443	0.00437	0.00359
75 Amusements											
76 Medical, Educational Services & Nonprofit Organizations		0.00077	0.00047			0.00054	0.00058	0.00077	0.00059	0.00110	0.00062
77 Federal Government Enterprises		0.00015	0.00015	0.00018	0.00017	0.00080	0.00082	0.00068	0.00043	0.00050	0.00028
78 State & Local Government Enterprises		0.00002	0.00003	0.00007	0.00003	0.00040	0.00057	0.00024	0.00026	0.00113	0.00122
79 Gross Imports of Goods & Services		0.00020	0.01594	0.24357	0.00006	0.00000	0.00007	0.00063	0.00331	0.00338	0.12644
80 Business Travel, Entertainment & GUM		0.00006	0.00117	0.00002	0.00004	0.00221	0.00458	0.00400	0.00544	0.00533	0.00274
81 Office Supplies		0.00003	0.00003	0.00025	0.00023	0.00023	0.00030	0.00041	0.00041	0.00042	0.00026
82 Scrap, Used & Secondhand Goods						0.00009	0.00037	0.00037	0.00048	0.00033	0.00253
83 Value Added											0.00045
V.A. Total		1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

\*Less than 0.00005. Note.—Detail may not add due to rounding.  
Source: U.S. Department of Commerce, Office of Business Economics

SURVEY OF CURRENT BUSINESS

**Per Dollar of Gross Output, 1963**

### Producers' prices?

Maintenance and repair contractors	Ordnance and aerospace	Food and kindred products	Tobacco manufactures	Broad and narrow fabrics, knit and threaten knits	Apparel	Machinery, except textile products	Leather and wood products, except furniture	Wooden containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and related chemicals	Plastics and synthetic materials	
12	12	14	26	26	17	18	19	20	21	22	23	24	25	26	27	28
D.00061	0.21053 -0.0205 0.0409	0.18147 0.18147	0.00886 -0.00785	0.04968 -0.00785	-	-	0.01696 0.00949	-	-	-	-	-	-	0.00103 0.00167 0.00291	-	-
0.00220	.00052	.00204	.00097	.00028	.00009	0.00008	.00020	0.00006	0.00037	0.00036	0.00039	0.00017	0.00004	.00503 .00191 .00194	.00380 .00191 .00065	
.01208	.00010 0.0007	-	-	-	-	-	-	.00003 0.0001	-	-	.00024 0.00007	-	-	-	.02755	-
.00036	.00061 0.02551	.00200 0.00115	.00006 0.00245	.00224 0.00882	.00289 -0.00008	.00068 0.00008	.00117 0.00043	.00034 0.00019	.00173 0.00119	.00118 0.00066	.00168 0.00093	.00346 0.00093	.00262 0.00096	.00158 .00025	.00427 0.00001	.00384 0.00001
.00014	1.7854 0.20763	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(*)	0.0020	-	-	25002	37406	21288	29228	-	-	-	-	-	-	-	-	-
.00014	(*)	0.0008	-	0.0900	0.0814	0.0521	0.0634	0.0008	-	-	-	-	-	-	-	-
.00006	0.0040	0.0067	-	0.0258	0.0758	0.1745	0.1912	0.0124	0.0200	0.0174	0.0130	0.0076	0.0111	-	-	-
.00001	0.0128	-	-	0.0342	0.0576	0.1537	0.1855	0.0006	-	-	-	-	-	-	-	-
.03865	0.0268	0.0013	0.0001	0.0002	-	-	0.0204	28773	37799	13879	17733	0.0046	0.0063	0.0159	0.03388	0.00882
-	-	-	-	-	-	-	(*)	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0023	0.0174	0.0021	0.0037	0.0003	0.0046	(*)	-	-
-	-	-	-	-	-	-	-	0.0018	0.0019	0.0012	0.0005	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0004	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0001	-	-	-	-	-
-	-	-	-	-	-	-	-	0.0006	0.0003	0.0003	0.0001	-				

Table 2.—Direct Requirements Per

(Producers' prices)

Industry No.	Industry	For the composition of inputs to an industry, read the column for that industry.										
		Drugs, dyes, and tobacco products	Paints and allied products	Petroleum refining and related industries	Rubber and related plastics products	Leather tanning and industrial leather products	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary aluminum and metal fabricating	Metal containers
		29	30	31	32	33	34	35	36	37	38	39
1	Livestock & Livestock Products	0.0027				0.0285						
2	Other Agricultural Products	0.0028							0.0073			
3	Forestry & Fishery Products	0.0014										
4	Agricultural, Forestry & Fishery Services											
5	Iron & Ferroalloy Ore Mining								0.0170	0.0474	0.0010	
6	Nonferrous Metal Ore Mining											
7	Coal Mining	0.0026	0.0013	0.00043	0.00008	0.0014	0.00013	0.0003	0.0002	0.0003	0.0003	0.0003
8	Crude Petroleum & Natural Gas			0.0007								
9	Stone and Clay Mining and Quarrying	0.0026	0.0022	0.0004	0.0002			0.0047	0.0054	0.0128		
10	Chemical & Fertilizer Mineral Mining	0.0024		0.0002	0.0002	0.0004		0.0046	0.0048			
11	New Construction											
12	Maintenance & Repair Construction	0.0027	0.0026	0.0001	0.0002	0.0185	0.0127	0.0049	0.0054	0.0070	0.0011	.00126
13	Ordnance & Accessories					(*)				0.0019	0.0002	
14	Food & Kindred Products	0.0020	0.0015	0.00016	0.0003	0.0020	0.0007	0.0006	0.0001	0.0003	0.0003	0.0010
15	Tobacco Manufacture					0.0001						
16	Broad & Narrow Fabrics, Yarn & Thread Mills	0.0015	0.0023	(*)	0.0020			0.0084		0.0147		0.0068
17	Miscellaneous Textile Goods & Floor Coverings	(*)	(*)	(*)	0.0027			0.0129		0.0076		0.0091
18	Apparel	0.0029	0.0011	0.00016	0.0015			0.0022	0.0023	0.0063	0.0002	0.0007
19	Miscellaneous Fabricated Textile Products	0.0008				0.0007		0.0024	0.0011	0.0210		
20	Lumber & Wood Products, Except Containers	0.0013	0.0011	0.0000	0.0026	0.0090	0.0128	0.0082	0.0008	0.0146	0.0153	0.0085
21	Wooden Containers	0.0021	0.0006	0.0001	0.0026	0.0003	0.0001	0.0074	0.0038	0.0220	0.0013	0.0014
22	Household Furniture							0.0094	0.0095	0.0095		0.0062
23	Other Furniture & Fixtures											
24	Paper & Allied Products, Except Containers	0.0016	0.0004	0.0048	0.0050	0.0001	0.0048	0.0082	0.0050	0.0030	0.0147	0.0026
25	Paperboard Containers & Boxes	0.0045	0.0077	0.0277	0.0131	0.0271	0.0146	0.0055	0.0027	0.0055	0.0054	0.1768
26	Printing & Publishing	0.0051	0.0014	0.0006	0.0018	0.0008	0.0033	0.0014	0.0044	0.0007	0.0007	0.0070
27	Chemicals & Selected Chemical Products	0.0055	0.0022	0.0008	0.0015	0.0003	0.0010	0.0045	0.0002	0.0078	0.0164	0.0041
28	Plastics & Synthetic Materials	0.0024	0.0020	0.0002	0.0006	0.0044	0.0045		0.0034	0.0004	0.0099	0.0074
29	Drugs, Cleaners & Toilet Preparations	0.0001	0.0004	0.0004	0.0007	0.0001	0.0000	0.0029	0.0029	0.0007	0.0005	0.0072
30	Paints & Allied Products	0.0026	0.0021	0.0000	0.0006	(*)	(*)	0.0030	0.0016	(*)	0.0009	0.0181
31	Petroleum Refining & Related Industries	0.0028	0.0021	0.0020	0.0012	0.0062	0.0009	0.0025	0.0173	0.0099	0.0027	0.0158
32	Rubber & Miscellaneous Plastics Products	0.0013	0.0019	0.0008	0.0002	0.0040	0.0030	0.0028	0.0048	0.0061	0.0112	0.0028
33	Leather Tanning & Industrial Leather Products	0.0003	0.0004	0.0010	0.0054	0.0055	1.0055	1.0018	0.0008	0.0031	0.0032	0.0004
34	Footwear & Other Leather Products	(*)				0.0024	0.0035	0.0031	(*)	0.0001	0.0001	(*)
35	Glass & Glass Products	0.0009	0.0021			0.0041	0.0027	0.0068	0.0017		0.0007	
36	Stone & Clay Products	0.0211	0.0052	0.0022	0.0049	0.0009	(*)	0.0050	1.0150	0.0188	0.0246	0.0204
37	Primary Iron & Steel Manufacturing	0.0002	0.0023	0.0005	0.0037	0.0185	0.0037	0.0159	0.0080	0.0080	0.0006	
38	Primary Nonferrous Metal Manufacturing	0.0000	0.0000	0.0000	0.0000	0.0041	0.0029	0.0021	0.0145	0.0117	0.0167	
39	Metal Containers	0.0001	0.0023	0.0012	0.0021					0.0003	0.0023	
40	Heating, Plumbing & Structural Metal Products	0.0008	0.0019	0.0019	0.0015			0.0031	0.0171	0.0041	0.0027	0.0153
41	Stamping, Screw Machine Products & Bolts	0.0020	0.0018	(*)	0.0026	0.0009	0.0041	0.0055	0.0017	0.0004	0.0060	0.0160
42	Other Fabricated Metal Products	0.0002	0.0000	0.0000	0.0029	0.0019	0.0043	0.0043	0.0034	0.0223	0.0022	0.0022
43	Engines & Turbines								0.0015	0.0010	0.0077	
44	Farm Machinery & Equipment							0.0001		0.0128		
45	Construction, Mining & Oil Field Machinery						0.0004		0.0043	0.0060	0.0003	0.0006
46	Materials Handling Machinery & Equipment	0.0008	0.0010	0.0020	0.0028	0.0018	0.0018	0.0024	0.0037	0.0064	0.0028	0.0043
47	Metalworking Machinery & Equipment	0.0023	0.0028		0.0002			0.0006	0.0063	0.0322	0.0009	0.0121
48	Special Industry Machinery & Equipment	0.0001	0.0001	0.0001	0.0012	0.0001		0.0001	0.0006	0.0060	0.0061	
49	General Industrial Machinery & Equipment	0.0005	0.0013	0.0018	0.0014	0.0001	0.0001	0.0014	0.0015	0.0011	0.0029	
50	Machinist Shop Products	0.0013	0.0003	0.0001	0.0006	0.0001	0.0002	0.0007	0.0007	0.0070	0.0065	0.0001
51	Office, Computing & Accounting Machines	(*)				0.0004			0.0001			
52	Service Industry Machines		0.0003			0.0005	0.0010		0.0002	0.0002	0.0020	
53	Electric Industrial Equipment & Apparatus	0.0001	0.0002			0.0008	0.0011	0.0041	0.0118	0.0063	0.0120	0.0031
54	Household Appliances	0.0003	0.0003			0.0003	0.0010	0.0010	0.0008	0.0019	0.0048	
55	Electric Lighting & Wiring Equipment	0.0005	0.0002	(*)	0.0003	0.0001	0.0001	0.0001	0.0049	0.0032	0.0019	(*)
56	Radio, Television & Communication Equipment	0.0006				0.0013	0.0038	0.0014	0.0026	0.0012	0.0067	0.0153
57	Electronics Components & Accessories		0.0002			0.0007	0.0012	0.0013	0.0007	0.0061	0.0010	0.0006
58	Miscellaneous Electrical Machinery, Equipment & Supplies	0.0003	0.0003			0.0002	0.0002	0.0002	0.0003	0.0011	0.0028	0.0003
59	Motor Vehicles & Equipment	0.0007	0.0007			0.0047	0.0004	0.0006	0.0007	0.0088	0.0014	0.0008
60	Aircraft & Parts					0.0043			0.0006	0.0001	0.0001	0.0043
61	Other Transportation Equipment								0.0001			
62	Scientific & Controlling Instruments	0.0021	0.0002	0.0003	0.0007	0.0020	0.0038	0.0057	0.0024	0.0058	0.0039	0.0015
63	Optical, Ophthalmic & Photographic Equipment	0.0004	0.0004	0.0006	0.0007	0.0007	0.0019	0.0018	0.0030	0.0006	0.0004	0.0005
64	Miscellaneous Manufacturing	0.0012	0.0002	0.0016	0.0028	0.0009	0.0043	0.0191	0.0271	0.0127	0.0056	0.0067
65	Transportation & Warehousing	0.0143	0.0043	0.0463	0.1723	0.0474	0.0107	0.0226	0.0324	0.0557	0.2314	0.2295
66	Communications, Except Radio & TV Broadcasting	0.0043	0.0035	0.0017	0.0033	0.0010	0.0027	0.0026	0.0064	0.0047	0.0035	0.0149
67	Radio & TV Broadcasting	0.0004	0.0008	0.0177	0.0176	0.0023	0.0080	0.0033	0.0224	0.0237	0.2279	0.0006
68	Electric, Gas, Water & Sanitary Services	0.0003	0.0008	0.0183	0.0200	0.0023	0.0000	0.0003	0.0004	0.0004	0.2877	0.2894
69	Wholesale & Retail Trade	0.0003	0.0005	0.0008	0.0004	0.0004	0.0003	0.0029	0.0010	0.0070	0.0032	0.0717
70	Finance & Insurance	0.0002	0.0005	0.0008	0.0004	0.0003	0.0003	0.0029	0.0010			
71	Real Estate & Rental	0.0053	0.0070	0.0018	0.0065	0.0002	0.0055	0.0041	0.0065	0.0036	0.0027	0.0052
72	Hotels, Personal & Repair Services ex. Auto.	0.0074	0.0049	0.0004	0.0008	0.0019	0.0040	0.0010	0.0020	0.0001	0.0044	0.0001
73	Business Services	14.512	0.0008	0.0223	0.0237	0.0049	0.0049	0.0001	0.0004	0.0047	0.0022	0.0009
74	Automobile Repair & Services	0.0064	0.0008	0.0039	0.0073	0.0001	0.0061	0.0074	0.0088	0.0050	0.0076	0.0054
75	Amusements											
76	Medical, Educational Services & Nonprofit Organizations	0.0053	0.0070	0.0018	0.0065	0.0002	0.0055	0.0041	0.0065	0.0036	0.0027	0.0052
77	Federal Government Enterprises	0.0204	0.0149	0.0004	0.0008	0.0003	0.0053	0.0020	0.0001	0.0044	0.0023	0.0001
78	State & Local Government Enterprises	0.0013	0.0012	0.0001	0.0019	0.0004	0.0006	0.0021	0.0010	0.0003	0.0019	0.0006
79	Gross Imports of Goods & Services	0.0007	0.0008	0.0008	0.0000	0.0000	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001
80	Business Travel, Entertainment & Gifts	0.0211	0.0145	0.0165	0.0047	0.0028	0.0035	0.0080	0.0074	0.0001	0.0022	0.0001
81	Office Supplies	0.0007	0.0123	0.0000	0.0008	0.0008	0.0011	0.0020	0.0005	0.0003	0.0043	0.0001
82	Scrap, Used & Secondhand Goods	0.0028	0.0007	0.0000	0.0005	0.0005	0.0005	0.0005				

**Dollar of Gross Output, 1963—Continued**

#### **(Production) variables**

### IP production model

Table 2.—Direct Requirements Per

## SURVEY OF CURRENT BUSINESS

**Dollar of Gross Output, 1963—Continued**

(Producer's price)

(Producers' prices)

Table 3.—Total Requirements (Direct and Indirect) Per

Industry No.	Each entry represents the output required, directly and indirectly, from the industry named at the beginning of the row for each dollar of delivery to final demand by the industry named at the head of the column.									
	Livestock and Livestock Products	Other Agricultural Products	Forestry and Mining products	Agricultural, Forestry and Fishery Services	Iron and Ferrous Metal Mining	Metals and Mineral ore mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chamfered and further mineral mining
	1	2	3	4	5	6	7	8	9	10
1	Livestock & Livestock Products	0.10113	0.11907	0.13536	0.02951	0.00968	0.02556	0.02458	0.02529	0.00482
2	Other Agricultural Products	0.07532	0.12999	0.09019	0.02521	0.0114	0.02556	0.06299	0.02586	0.02223
3	Forestry & Fishery Products	0.00141	0.0073	1.02690	0.00448	0.0124	0.0124	0.00338	0.00313	0.00373
4	Agricultural, Forestry & Fishery Services	0.00513	0.04547	0.00401	1.01882	0.00235	0.00237	0.00412	0.0024	0.00110
5	Iron & Ferrous Metal Mining	0.00707	0.0090	0.01111	0.01178	0.0075	0.0032	0.00303	0.0235	0.0470
6	Numerous Metal Ore Mining	0.00003	0.0001	0.00693	0.0143	0.02186	1.31085	0.01113	0.0061	0.00151
7	Coal Mining	0.01282	0.0156	0.0120	0.01057	0.0053	0.0033	1.18906	0.0113	0.00330
8	Crude Petroleum & Natural Gas	0.01799	0.02576	0.01650	0.0105	0.0168	0.0169	0.0182	1.03246	0.00585
9	Stone and Clay Mining and Quarrying	0.00245	0.0040	0.00107	0.0228	0.00457	0.0133	0.0120	0.01142	0.00004
10	Chemical & Fertilizer Mineral Mining	0.01920	0.0373	0.0063	0.0174	0.0090	0.0701	0.0000	0.0030	0.0263
11	New Construction									
12	Maintenance & Repair Construction	0.02803	0.02957	0.0064	0.0055	0.0065	0.0170	0.01643	0.00211	0.0056
13	Ordnance & Accessories	0.00008	0.0007	0.0006	0.0015	0.0012	0.0018	0.0022	0.0011	0.0028
14	Food & Kindred Products	0.01038	0.0136	0.0210	0.0061	0.0060	0.0058	0.0054	0.0044	0.00413
15	Tobacco Manufacture	0.00021	0.0020	0.0042	0.0043	0.0039	0.0023	0.0022	0.0017	0.0020
16	Broad & Narrow Fabrics, Yarn & Thread Mills	0.02113	0.00448	0.1241	0.0075	0.0084	0.0152	0.0126	0.0068	0.0149
17	Miscellaneous Textile Goods & Floor Coverings	0.00298	0.0034	0.0185	0.0229	0.0082	0.0083	0.0119	0.0053	0.0048
18	Apparel	0.00094	0.0007	0.0001	0.0038	0.0035	0.0048	0.0047	0.0034	0.0004
19	Miscellaneous Fabricated Textile Products	0.00226	0.0222	0.0081	0.0185	0.0119	0.0026	0.0028	0.0115	0.0060
20	Lumber & Wood Products, Except Containers	0.00485	0.0063	0.0119	0.0084	0.0085	0.0167	0.0116	0.0045	0.0044
21	Wooden Containers	0.0228	0.00444	0.0016	0.0007	0.0009	0.0016	0.0016	0.0008	0.0010
22	Household Furniture	0.00018	0.0009	0.0021	0.0027	0.0006	0.0018	0.0012	0.0004	0.0006
23	Other Furniture & Fixtures	0.00004	0.0006	0.0006	0.0012	0.0004	0.0006	0.0004	0.0005	0.0005
24	Paper & Allied Products, Except Containers	0.01227	0.00431	0.0056	0.0059	0.0046	0.0071	0.0049	0.0024	0.0013
25	Paperboard Containers & Boxes	0.00776	0.00429	0.0016	0.0017	0.0019	0.0018	0.0018	0.0007	0.00152
26	Printing & Publishing	0.01379	0.01242	0.0073	0.0121	0.0079	0.0074	0.0073	0.0064	0.0058
27	Chemicals & Selected Chemical Products	0.00661	0.01028	0.0066	0.0068	0.0068	0.0120	0.00565	0.0044	0.00297
28	Plastics & Synthetic Materials	0.00298	0.00448	0.0211	0.0077	0.0053	0.0028	0.0028	0.00178	0.00281
29	Drapes, Cleaning & Table Preparation	0.00044	0.00222	0.0044	0.0228	0.0090	0.0143	0.0095	0.0078	0.00148
30	Paints & Allied Products	0.00197	0.00207	0.0012	0.0200	0.0117	0.0142	0.0145	0.0084	0.0132
31	Petroleum Refining & Related Industries	0.03544	0.02210	0.0428	0.0788	0.0229	0.0562	0.0227	0.0203	0.00888
32	Rubber & Miscellaneous Plastic Products	0.00006	0.00757	0.0053	0.0064	0.0079	0.0106	0.0085	0.00841	0.00685
33	Leather Tanning & Industrial Leather Products	0.00020	0.00116	0.0012	0.0062	0.0037	0.0040	0.0060	0.0006	0.0016
34	Footwear & Other Leather Products	0.00054	0.00025	0.0024	0.0104	0.0009	0.0012	0.0012	0.0010	0.0005
35	Glass & Glass Products	0.00028	0.00008	0.0015	0.0125	0.0048	0.0083	0.0073	0.0064	0.0050
36	Stone & Clay Products	0.0020	0.0020	0.0023	0.0008	0.0040	0.0070	0.0075	0.0056	0.0072
37	Primary Iron & Steel Manufacturing	0.01035	0.00261	0.0117	0.0121	0.0121	0.0167	0.0143	0.0101	0.01014
38	Primary Nonferrous Metal Manufacturing	0.00971	0.00205	0.0082	0.0169	0.0062	0.0101	0.0092	0.0070	0.0123
39	Metal Containers	0.00620	0.0228	0.0458	0.0271	0.0057	0.0067	0.0065	0.0048	0.0067
40	Heating, Plumbing & Structural Metal Products	0.00122	0.00208	0.0157	0.0154	0.0121	0.0022	0.0018	0.0034	0.0016
41	Stamping, Screw Machines Products & Bolts	0.00209	0.00324	0.0021	0.0024	0.0043	0.0024	0.0023	0.0019	0.00201
42	Other Fabricated Metal Products	0.00789	0.0730	0.0125	0.0395	0.0004	0.0073	0.0049	0.0038	0.00114
43	Engines & Turbines	0.00072	0.00104	0.0025	0.0070	0.0010	0.0010	0.0006	0.0005	0.0045
44	Farm Machinery & Equipment	0.00483	0.00798	0.0128	0.0373	0.0035	0.0035	0.0039	0.0027	0.0115
45	Construction, Mining & Oil Field Machinery	0.00062	0.00702	0.0038	0.0074	0.0041	0.0070	0.0062	0.0057	0.0084
46	Materials Handling Machinery & Equipment	0.00632	0.0057	0.0022	0.0045	0.0085	0.0052	0.0094	0.0042	0.0034
47	Metalworking Machinery & Equipment	0.00088	0.00778	0.0124	0.0127	0.0280	0.0024	0.0016	0.0016	0.00263
48	Special Industry Machinery & Equipment	0.00082	0.0111	0.0078	0.0130	0.0035	0.0118	0.0060	0.0058	0.00118
49	General Industrial Machinery & Equipment	0.00118	0.00160	0.0173	0.0199	0.0065	0.0042	0.0022	0.0023	0.0174
50	Machinist Shop Products	0.00087	0.00107	0.0063	0.0064	0.0077	0.0067	0.0070	0.0064	0.00443
51	Office, Computing & Accounting Machines	0.00068	0.00047	0.0034	0.0062	0.0008	0.0009	0.0067	0.0044	0.00416
52	Service Industry Machines	0.00043	0.00449	0.0055	0.0066	0.0049	0.0046	0.0051	0.0042	0.0058
53	Electric Industrial Equipment & Apparatus	0.01048	0.0129	0.0212	0.0164	0.0159	0.0226	0.0113	0.0045	0.00605
54	Household Appliances	0.00041	0.0043	0.0058	0.0071	0.0035	0.0048	0.0042	0.0038	0.0073
55	Electric Lighting & Wiring Equipment	0.00063	0.00082	0.0007	0.0060	0.0008	0.0012	0.0004	0.00120	0.00449
56	Radio, Television & Communication Equipment	0.00652	0.00482	0.0061	0.0070	0.0060	0.0079	0.0105	0.00402	0.0122
57	Electroic Components & Accessories	0.00442	0.0041	0.0072	0.0039	0.0048	0.0079	0.0076	0.0043	0.0060
58	Miscellaneous Electrical Machinery, Equipment & Supplies	0.00387	0.00488	0.0249	0.0111	0.0037	0.0118	0.0160	0.0039	0.0111
59	Motor Vehicles & Equipment	0.00311	0.00382	0.0206	0.0001	0.0004	0.0068	0.0065	0.0021	0.00482
60	Aircraft & Parts	0.00071	0.0051	0.0023	0.0054	0.0045	0.0035	0.0038	0.0038	0.00381
61	Other Transportation Equipment	0.00047	0.00062	0.0171	0.0069	0.0126	0.0248	0.0035	0.0061	0.0167
62	Scientific & Controlling Instruments	0.00030	0.00049	0.0117	0.0091	0.0077	0.0139	0.0067	0.0103	0.00775
63	Optical, Ophthalmic & Photographic Equipment	0.00058	0.00041	0.0048	0.0068	0.0046	0.0046	0.0046	0.0045	0.00440
64	Mitomachines Manufacturing	0.00059	0.0188	0.0090	0.0206	0.0112	0.0205	0.0124	0.0104	0.0162
65	Transportation & Warehousing	0.00082	0.0203	0.0176	0.0384	1.1195	0.0261	0.0275	0.0030	0.0774
66	Communications; Except Radio & TV Broadcasting	0.00010	0.00712	0.0090	0.0081	0.0054	0.0051	0.0054	0.0048	0.00804
67	Radio & TV Broadcasting	0.00271	0.0016	0.0117	0.0090	0.0024	0.0162	0.0165	0.0139	0.0142
68	Electric, Gas, Water & Sanitary Services	0.02585	0.0273	0.0181	0.0098	0.0117	0.0129	0.0165	0.0132	0.0766
69	Wholesale & Retail Trade	0.00001	0.00003	0.0001	0.0004	0.0000	0.0000	0.0014	0.00167	0.00070
70	Finance & Insurance	0.00067	0.00033	0.0168	0.0038	0.0110	0.0172	0.0273	0.0067	0.00311
71	Real Estate & Rental	0.00725	1.0182	0.0288	0.0167	0.0030	0.0084	0.0086	0.0000	0.00005
72	Hotels, Personal & Repair Services etc. Ante.	0.00284	0.00182	0.0095	0.0167	0.0104	0.0181	0.0200	0.0212	0.0145
73	Business Services	0.04300	0.0504	0.0077	0.0180	0.0157	0.0157	0.0045	0.0184	0.0238
74	Automobile Repair & Services	0.00051	0.00385	0.0075	0.0182	0.0076	0.0082	0.0082	0.0040	0.00295
75	Amusement	0.00145	0.00164	0.0004	0.0195	0.0128	0.0004	0.0017	0.00107	0.00083
76	Medical, Educational Services & Nonprofit Organizations	0.00012	0.00200	0.0147	0.0211	0.0129	0.0165	0.0064	0.0106	0.00444
77	Federal Government Enterprises	0.00881	0.00285	0.0024	0.0032	0.0076	0.0017	0.0067	0.0018	0.00378
78	State & Local Government Enterprises	0.00065	0.0065	0.0048	0.0046	0.0059	0.0117	0.0067	0.0017	0.00387
79	Gross Imports of Goods & Services	0.00154	0.0137	0.0283	0.0393	0.0200	0.0163	0.0167	0.0071	0.01871
80	Business Travel, Entertainment & Gifts	0.00727	0.00686	0.01470	0.0165	0.0038	0.0058	0.0065	0.0068	0.00885
81	Office Supplies</td									

## SURVEY OF CURRENT BUSINESS

## Dollar of Delivery to Final Demand, 1963

(Producers' prices)

New construction	Maintenance and re-pair construction	Ordnance and accessories	Food and kindred products	Toilets	Textiles manufacture	Broads and narrow fibers, yarns, thread, mill	Apparel	Miscellaneous textile products	Lumber and wood products, except furniture	Wooden containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and allied chemicals	Industry No.	
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
R.00480	0.00411	0.00802	0.88647	0.02137	0.06133	0.00060	0.01261	0.22425	0.01388	0.00311	D.00482	0.00682	0.00625	0.00492	0.00535	0.00364	1.2	
0.0115	0.00479	0.00849	2.2988	2.1065	1.7425	0.00089	0.00527	0.02050	0.02265	0.01866	0.00887	0.00682	0.00485	0.00565	0.00607	0.00283	1.2	
0.0742	0.00496	0.00279	0.00040	0.00049	0.00063	0.00103	0.00121	0.12449	0.02768	0.02448	0.03097	0.00333	0.00448	0.00289	0.00210	0.00120	1.2	
0.0184	0.00583	0.00227	0.01236	0.00878	0.00242	0.00427	0.00316	0.00359	0.01737	0.03044	0.01627	0.0101	0.00403	0.00457	0.00443	0.00778	1.2	
0.00505	0.00205	0.00204	0.00142	0.00045	0.00114	0.00209	0.00096	0.00081	0.01218	0.00008	0.00114	0.00776	0.00103	0.00681	0.00678	0.00283	1.2	
0.0481	0.00265	0.07124	0.00707	0.00043	0.00181	0.00128	0.00060	0.01116	0.00054	0.00058	0.00421	0.00120	0.00140	0.00063	0.00164	0.00283	1.2	
0.0486	0.00247	0.02066	0.00285	0.00124	0.00172	0.00400	0.00268	0.00343	0.02544	0.01416	0.00351	0.00500	0.00387	0.00362	0.00317	0.00283	1.2	
0.0146	0.00264	0.00643	0.01347	0.00737	0.01555	0.01461	0.00884	0.01138	0.01072	0.00938	0.00070	0.00707	0.01448	0.02448	0.00658	0.00103	0.00113	1.2
0.0185	0.01229	0.00100	0.00103	0.00110	0.00170	0.00404	0.00088	0.00130	0.01511	0.00245	0.00123	0.00291	0.00685	0.00318	0.00170	0.00417	0.00120	1.2
0.0104	0.00265	0.00031	0.00142	0.00119	0.00114	0.00268	0.00093	0.00284	0.00008	0.00123	0.00108	0.00687	0.00223	0.00182	0.00436	0.00120	1.2	
J.00000																		
0.01160	1.00968	0.00850	0.01934	0.00659	0.01559	0.01149	0.01449	0.02365	0.01633	0.01281	0.02268	0.01482	0.01418	0.01495	0.02005	0.00120	1.1	
0.00963	0.00294	1.00253	0.00011	0.00008	0.00010	0.00038	0.00011	0.00011	0.00144	0.00119	0.00011	0.00017	0.00042	0.00014	0.00017	0.00014	1.1	
0.00853	0.00092	0.00704	1.28311	0.00895	0.01534	0.02346	0.01194	0.01727	0.01027	0.01210	0.00909	0.02125	0.01614	0.00701	0.00774	0.00012	1.1	
0.00943	0.00042	0.00033	1.41795	0.00023	0.00033	0.00033	0.00042	0.00050	0.00444	0.00446	0.00041	0.00033	0.00073	0.00042	0.00042	0.00042	1.1	
0.0484	0.02119	0.00227	0.00422	0.00125	1.42220	0.01881	0.02140	0.02019	0.00385	0.00383	0.00001	0.01422	0.01479	0.00725	0.00461	0.00284	1.1	
0.00424	0.00149	0.00158	0.00227	0.00095	0.00195	0.00205	0.00205	0.00008	0.00008	0.00008	0.00008	0.00008	0.00046	0.00052	0.00008	0.00107	1.1	
0.0165	0.01183	0.00194	0.01044	0.00028	0.00063	0.01365	0.01396	0.02392	0.02290	0.00397	0.00005	0.00194	0.00243	0.00071	0.00115	0.00115	1.1	
0.00881	0.00068	0.00064	0.00283	0.00065	0.00331	0.00288	0.00205	0.00305	0.00071	0.00047	0.00244	0.00160	0.00046	0.00123	0.00122	0.00181	0.00195	1.1
0.00842	0.00550	0.00769	0.00748	0.00444	0.00328	0.00365	0.00404	0.00107	1.42394	0.00488	0.00002	0.00075	0.00065	0.00431	0.00216	0.00045	0.00045	1.1
0.00558	0.00339	0.00124	0.00289	0.00185	0.00042	0.00054	0.00042	0.00057	0.00067	1.02428	0.00104	0.00103	0.00058	0.00076	0.00050	0.00051	0.00120	1.1
0.00576	0.00269	0.00132	0.00047	0.00005	0.00020	0.00114	0.00020	0.00117	0.00278	0.00047	1.02226	0.00166	0.00058	0.00024	0.00015	0.00010	0.00022	1.1
0.00118	0.00233	0.00144	0.00008	0.00006	0.00006	0.00005	0.00005	0.00013	0.00013	0.00011	0.00013	1.02276	0.00066	0.00013	0.00185	0.00008	0.00028	1.1
0.01613	0.01282	0.00198	0.00282	0.00125	0.00194	0.00205	0.00203	0.00003	0.00153	0.00068	0.01154	0.00772	1.02401	0.01623	0.00866	0.00947	0.00117	1.1
0.00456	0.00387	0.00432	0.00261	0.00137	0.00137	0.00101	0.00101	0.00019	0.00019	0.00019	0.00018	0.00113	0.01136	0.00068	0.00088	0.00118	0.00120	1.1
0.01848	0.01007	0.02446	0.02795	0.02432	0.01345	0.01246	0.01221	0.01811	0.00003	0.00008	0.01261	0.02310	0.02489	1.14043	0.01419	0.00120	0.00120	1.1
0.0278	0.02746	0.01517	0.00247	0.00203	0.00268	0.00268	0.00201	0.00400	0.00003	0.00003	0.01243	0.02372	0.02488	1.14310	0.00120	0.00120	0.00120	1.1
0.0044	0.00891	0.00061	0.00062	0.01016	0.01618	0.00891	0.00744	0.00510	0.00600	0.00005	0.00005	0.02018	0.02469	0.02495	0.00104	0.00104	0.00104	1.1
0.00188	0.00182	0.00134	0.00080	0.00023	0.00023	0.00074	0.00042	0.00042	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	1.1
0.00779	0.01884	0.00169	0.00228	0.00065	0.00298	0.00286	0.00182	0.00238	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	1.0
0.03480	0.01019	0.01073	0.00469	0.01401	0.02782	0.02177	0.01832	0.01867	0.01965	0.01837	0.01556	0.01436	0.01401	0.01475	0.00283	0.00120	0.00120	1.0
0.01589	0.01280	0.02589	0.00888	0.00367	0.01151	0.00788	0.00795	0.00473	0.00473	0.00421	0.00005	0.00005	0.00339	0.00185	0.00120	0.00120	0.00120	1.0
0.00224	0.00168	0.00254	0.00220	0.00010	0.00080	0.00042	0.00038	0.00074	0.00041	0.00067	0.00005	0.00005	0.00044	0.00022	0.00045	0.00022	0.00022	1.0
0.00224	0.00226	0.00238	0.00050	0.00015	0.00028	0.00028	0.00014	0.00026	0.00067	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	1.0
0.00380	0.00241	0.00228	0.01500	0.00507	0.00207	0.00041	0.00047	0.00278	0.00143	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	1.0
0.04830	0.02713	0.00412	0.00267	0.00275	0.00267	0.00062	0.00062	0.00069	0.00069	0.00069	0.00069	0.00069	0.00069	0.00069	0.00069	0.00069	0.00069	1.0
0.04910	0.0275	0.00416	0.00872	0.01029	0.00483	0.00483	0.00483	0.00528	0.00528	0.00528	0.00528	0.00528	0.00528	0.00528	0.00528	0.00528	0.00528	1.0
0.00227	0.00128	0.00061	0.00061	0.00070	0.00070	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	1.0
0.00384	0.00053	0.00056	0.00277	0.00178	0.00060	0.00077	0.00101	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	1.0
0.00431	0.01144	0.00144	0.00061	0.00062	0.00062	0.00074	0.00049	0.00067	0.00079	0.00188	0.00127	0.00063	0.00064	0.00064	0.00049	0.00049	0.00049	1.0
0.01111	0.00667	0.00116	0.00061	0.00064	0.00062	0.00067	0.00063	0.00063	0.00068	0.00068	0.00779	0.00064	0.00057	0.00058	0.00075	0.00075	0.00075	1.0
0.00009	0.00741	0.00281	0.00048	0.00037	0.00037	0.00063	0.00063	0.00039	0.00039	0.00039	0.00039	0.00039	0.00039	0.00039	0.00043	0.00043	0.00043	1.0
0.01156	0.00705	0.01244	0.00321	0.00080	0.00164	0.00043	0.01116	0.00147	0.00148	0.00210	0.00228	0.00126	0.00437	0.00128	0.00128	0.00128	0.00128	1.0
0.00488	0.00638	0.00261	0.000															

## SURVEY OF CURRENT BUSINESS

November 1980

Table 3.—Total Requirements (Direct and Indirect) Per  
[Prodcons' prices]

Industry No.	Industry Name	Plastics and Synthetic Materials	Dress, cleaning, and toilet preparations	Paints and allied products	Petroleum Refining and Related Industries	Rubber and Allied-Latexes Plastics Products	Leather Tanning and Industrial Leather Products	Footwear and Other Leather Products	Glass and Glass Products	Stone and Clay Products	Primary Iron and Steel Ingots-Steelings
	Each entry represents the output required, directly and indirectly, from the industry named at the beginning of the row for each dollar of delivery to final demand by the industry named at the head of the column.										
1	Livestock & Livestock Products	0.00482	0.01908	0.03104	0.00448	0.00770	0.00436	0.00747	0.00322	0.00330	0.00211
2	Other Agricultural Products	0.00111	0.01445	0.01491	0.00528	0.01099	0.01553	0.01293	0.01294	0.01474	0.0248
3	Forestry & Fishery Products	0.00177	0.00011	0.00288	0.00064	0.0128	0.00602	0.00228	0.00886	0.0101	0.0062
4	Agricultural, Forestry & Fishery Services	0.00622	0.00104	0.00111	0.00039	0.00068	0.00022	0.00081	0.00045	0.00038	0.0024
5	Iron & Ferroalloy Ore Mining	0.00220	0.00022	0.00264	0.00002	0.00178	0.00007	0.00081	0.00110	0.00068	0.00368
6	Nonferrous Metal Ore Mining	0.00490	0.00180	0.00402	0.00403	0.00498	0.00632	0.00655	0.00468	0.00487	0.00579
7	Coal Mining	0.00922	0.01200	0.00700	0.00258	0.00822	0.00448	0.00254	0.00451	0.01457	0.01443
8	Crude Petroleum & Natural Gas	0.00117	0.01428	0.00265	0.00743	0.00239	0.00779	0.00688	0.01179	0.01723	0.01270
9	Stone and Clay Mining and Quarrying	0.00222	0.00216	0.00420	0.00580	0.00298	0.00025	0.00035	0.01712	0.04622	0.04008
10	Chemical & Fertilizer Mineral Mining	0.00138	0.00101	0.00005	0.00148	0.00460	0.00231	0.00137	0.00277	0.00440	0.0172
11	New Construction										
12	Maintenance & Repair Construction	0.01708	0.01820	0.01558	0.00889	0.01296	0.00601	0.00933	0.01485	0.01743	0.01949
13	Ordnance & Accessories	0.00089	0.00017	0.00018	0.00010	0.00026	0.00004	0.00012	0.00012	0.00018	0.00044
14	Food & Kindred Products	0.02645	0.01477	0.01234	0.00756	0.0170	0.01281	0.01003	0.00859	0.00800	0.01820
15	Tobacco Manufacture	0.00441	0.00083	0.00078	0.00028	0.00046	0.00021	0.00038	0.00067	0.00041	0.00227
16	Bread & Narrow Fabrics, Yarn & Thread Mills	0.00321	0.00896	0.00266	0.0004	0.0186	0.01249	0.0209	0.00663	0.00725	0.01569
17	Miscellaneous Textile Goods & Floor Coverings	0.00170	0.00262	0.00106	0.00065	0.00747	0.00098	0.00437	0.01205	0.00405	0.00765
18	Apparel	0.01333	0.00181	0.00134	0.00061	0.00421	0.00885	0.0377	0.02325	0.00203	0.01714
19	Miscellaneous Fabricated Textile Products	0.00090	0.00068	0.00030	0.00022	0.00264	0.00024	0.00036	0.00556	0.00303	0.00338
20	Lumber & Wood Products, Except Containers	0.00771	0.00117	0.00373	0.00494	0.01019	0.00682	0.02348	0.00554	0.00393	0.00642
21	Wooden Containers	0.00057	0.00022	0.00075	0.00412	0.00667	0.00065	0.00116	0.00452	0.00395	0.00239
22	Household Furniture	0.00003	0.00024	0.00005	0.00006	0.00038	0.00006	0.00029	0.00554	0.00017	0.00113
23	Other Furniture & Fixtures	0.00013	0.00041	0.00005	0.00005	0.00006	0.00003	0.00013	0.00008	0.00008	0.00007
24	Paper & Allied Products, Except Containers	0.00104	0.04317	0.02472	0.01409	0.00844	0.00874	0.02112	0.03573	0.01435	0.00682
25	Paperboard Containers & Boxes	0.02682	0.00311	0.01563	0.00502	0.02370	0.00660	0.02892	0.06405	0.00811	0.00284
26	Printing & Publishing	0.01535	0.04993	0.01975	0.02489	0.01404	0.00693	0.01461	0.01295	0.01938	0.02673
27	Chemicals & Selected Chemical Products	0.02720	0.15892	0.00223	0.01743	0.00558	0.02359	0.01485	0.01718	0.02096	0.02747
28	Plastics & Synthetic Materials	1.02683	0.01065	1.0444	0.00287	2.0772	0.0643	0.0396	0.01932	0.1554	0.0206
29	Drugs, Cleaning & Toilet Preparations	0.01190	0.06403	0.01564	0.00487	0.00446	0.01462	0.01981	0.0221	0.0454	0.01213
30	Paints & Allied Products	0.00680	0.00402	1.00500	0.00110	0.00660	0.00693	0.01350	0.00838	0.0174	0.01682
31	Petroleum Refining & Related Industries	0.00870	0.02614	0.07237	1.03227	1.03231	0.01323	0.01127	0.01339	0.2894	0.01936
32	Rubber & Miscellaneous Plastic Products	0.02204	0.04556	0.01058	0.00883	0.01712	0.01457	0.01761	0.02005	0.01996	0.00008
33	Leather Tanning & Industrial Leather Products	0.00084	0.00026	0.00269	0.00020	0.0123	1.24145	2.2701	0.0096	0.00683	0.00445
34	Footwear & Other Leather Products	0.00018	0.00033	0.00037	0.00111	0.0136	0.00110	1.08156	0.00110	0.00220	0.00116
35	Glass & Glass Products	0.00124	0.02383	0.01359	0.00274	0.00365	0.01445	0.00174	1.06588	0.00367	0.00539
36	Stone & Clay Products	0.00021	0.00588	0.00011	0.00744	0.01182	0.00363	0.02684	0.00484	1.13368	0.0331
37	Primary Iron & Steel Manufacturing	0.01471	0.02367	0.01691	0.01267	0.01113	0.00496	0.0159	0.01294	0.02747	1.20070
38	Primary Nonferrous Metal Manufacturing	0.01394	0.00229	0.02737	0.00904	0.01317	0.00877	0.00743	0.01888	0.01229	0.02825
39	Metal Containers	0.00870	0.02455	0.00628	0.00774	0.00506	0.02117	0.01248	0.00966	0.00007	0.01080
40	Heating, Plumbing & Structural Metal Products	0.01102	0.01001	0.01239	0.00285	0.01049	0.00445	0.00888	0.00631	0.00524	0.01138
41	Stampings, Screw Machine Products & Bolts	0.00127	0.00615	0.00294	0.00109	0.00225	0.00690	0.02324	0.00262	0.00210	0.01222
42	Other Fabricated Metal Products	0.00639	0.04507	0.00617	0.00388	0.01147	0.00373	0.01396	0.00365	0.01667	0.02494
43	Engines & Turbines	0.00058	0.00103	0.00667	0.00140	0.00659	0.00654	0.00041	0.00091	0.00080	0.01212
44	Farm Machinery & Equipment	0.00091	0.00733	0.00246	0.00229	0.00333	0.00016	0.00037	0.00026	0.00053	0.00213
45	Construction, Mining & Oil Field Machinery	0.00120	0.00073	0.01006	0.00177	0.00651	0.00040	0.00040	0.01113	0.00924	0.00403
46	Material Handling Machinery & Equipment	0.00082	0.00048	0.00065	0.00070	0.00669	0.00041	0.00062	0.0076	0.00287	0.00118
47	Metalworking Machinery & Equipment	0.00102	0.00245	0.00138	0.00176	0.00189	0.00037	0.0001	0.0198	0.00497	0.00707
48	Special Industry Machinery & Equipment	0.00482	0.02315	0.00331	0.00082	0.00000	0.00020	0.0004	0.01335	0.01338	0.0344
49	General Industrial Machinery & Equipment	0.00217	0.00161	0.00092	0.00237	0.00168	0.00088	0.0007	0.00448	0.00884	0.00488
50	Machine Shop Products	0.00673	0.00026	0.01111	0.00063	0.0160	0.00287	0.0061	0.0067	0.00561	0.01438
51	Office, Computing & Accounting Machines	0.00071	0.01100	0.00778	0.00064	0.00772	0.00035	0.0004	0.0065	0.00065	0.00065
52	Service Industry Machines	0.00042	0.00068	0.00054	0.00049	0.00449	0.00042	0.00046	0.00046	0.00148	0.00148
53	Electric Industrial Equipment & Apparatus	0.00220	0.02336	0.00232	0.00883	0.00287	0.00070	0.01228	0.00525	0.0078	0.01000
54	Household Appliances	0.00040	0.00063	0.00031	0.00061	0.01320	0.00223	0.00343	0.00530	0.00613	0.00113
55	Electrical Lighting & Wiring Equipment	0.00045	0.00064	0.00000	0.00083	0.00037	0.00022	0.00040	0.00065	0.00342	0.01239
56	Radio, Television & Communication Equipment	0.00063	0.01141	0.00682	0.00680	0.01118	0.00860	0.01118	0.01110	0.0091	0.0105
57	Electronic Components & Accessories	0.00053	0.00004	0.00074	0.00121	0.00100	0.00034	0.0011	0.0079	0.0076	0.00690
58	Miscellaneous Electrical Machinery, Equipment & Supplies	0.00065	0.00069	0.00070	0.00065	0.00088	0.00020	0.0004	0.00583	0.00402	0.01237
59	Motor Vehicles & Equipment	0.00176	0.02114	0.00222	0.00206	0.00258	0.00081	0.01835	0.01220	0.00536	0.00932
60	Aircraft & Parts	0.00776	0.01100	0.01111	0.00085	0.0304	0.00046	0.00205	0.00562	0.01118	0.01538
61	Other Transportation Equipment	0.00064	0.00065	0.00048	0.00077	0.00682	0.00032	0.0061	0.0061	0.0100	0.01115
62	Scientific & Control-Testing Instruments	0.00079	0.03494	0.00882	0.00884	0.01177	0.00032	0.00777	0.0123	0.00889	0.02222
63	Optical, Ophthalmic & Photographic Equipment	0.00069	0.02001	0.01085	0.0067	0.01094	0.00356	0.00837	0.00920	0.00666	0.00666
64	Miscellaneous Manufacturing	0.00042	0.00223	0.00212	0.00163	0.00001	0.00129	0.02613	0.00408	0.00603	0.00333
65	Transportation & Warehousing	0.00750	0.00686	0.00349	0.00314	0.00324	0.00184	0.00684	0.00901	0.00884	0.00658
66	Communications; Except Radio & TV Broadcasting	0.00223	0.04531	0.01282	0.00684	0.00041	0.00596	0.01077	0.00826	0.01066	0.00695
67	Radio & TV Broadcasting	0.00641	0.01125	0.00348	0.00264	0.00006	0.00183	0.00306	0.01260	0.02349	0.02123
68	Electric, Gas, Water & Sanitary Services	0.00006	0.02688	0.00438	0.00701	0.00824	0.02280	0.01065	0.01777	0.00781	0.03239
69	Wholesale & Retail Trade	0.00060	0.03777	0.00117	0.00403	0.00187	0.01714	0.00704	0.00680	0.02047	0.00685
70	Finance & Insurance	0.01826	0.01951	0.01140	0.00000	0.01245	0.01245	0.01784	0.01786	0.01310	0.02310
71	Real Estate & Rental	0.00047	0.00707	0.00760	1.00862	0.02881	0.02406	0.02			

## SURVEY OF CURRENT BUSINESS

## Dollar of Delivery to Final Demand, 1968—Continued

(Producer's price)

Primary nonferrous metal manufacturing	Metal smelting	Heating, plumbing and structural metal products	Stainless, monel, magnesium products and bolts	Other fabricated metal products	Engines and turbines	Farm machinery and equipment	Construction, oil field machinery	Materials handling machinery and equipment	Metalworking machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Machine shop products	Office, commercial and accounting machines	Service industry machines	Electrical industrial and apparatus	Household appliances	Industry No.		
36	39	45	41	42	43	44	45	46	47	48	49	50	51	52	53	54			
0.00360	0.00366	0.00235	0.00285	0.00286	0.00271	0.00286	0.00286	0.00215	0.00219	0.00443	0.00210	0.00312	0.00338	0.00391	0.00341	0.00398	1		
0.00287	0.00361	0.00260	0.00280	0.00280	0.00278	0.00282	0.00280	0.00245	0.00250	0.00282	0.00219	0.00338	0.00329	0.00493	0.00351	0.00445	2		
0.00074	0.00287	0.00267	0.00149	0.00148	0.00084	0.00083	0.00082	0.00060	0.00060	0.00101	0.00072	0.00068	0.00047	0.00110	0.00570	0.00111	0		
0.00288	0.00333	0.00233	0.00282	0.00277	0.00224	0.00232	0.00228	0.00032	0.00027	0.00083	0.00290	0.00229	0.00288	0.00329	0.00322	0.00440	3		
0.00288	0.00280	0.01753	0.01528	0.01528	0.00944	0.01238	0.01260	0.01080	0.01016	0.00834	0.01004	0.00783	0.00233	0.00233	0.00334	0.00317	0.00303	4	
.11758	.00458	.01183	.00216	.01215	.00795	.00415	.00420	.00620	.00651	.00521	.00770	.00724	.00396	.00361	.01031	.00837	.0	5	
.03485	.01413	.00868	.00896	.00890	.00866	.00782	.00621	.00556	.00534	.00558	.00631	.00504	.00228	.00378	.00487	.00604	.0	6	
.01286	.01054	.00877	.00863	.00863	.00873	.00864	.00828	.00862	.00792	.00666	.00933	.00713	.00115	.00887	.00923	.00912	.0	7	
.00317	.00273	.00249	.00216	.00243	.00236	.00201	.00208	.00172	.00296	.00174	.00238	.00256	.00123	.00381	.00230	.00284	.0	8	
.00188	.00137	.00147	.00114	.00140	.00070	.00026	.00079	.00081	.00070	.00074	.00077	.00066	.00051	.00111	.00209	.00134	.00134	.0	9
.01506	.01472	.01860	.01224	.01239	.01073	.01121	.01153	.01169	.01067	.01217	.01105	.01233	.00945	.01145	.01450	.01155	.0	10	
.00021	.00242	.02460	.00463	.00282	.00896	.00063	.00062	.00060	.00071	.00236	.00075	.00056	.00128	.00396	.00129	.00129	.0	11	
.00639	.00148	.00632	.00887	.00829	.00723	.00767	.00738	.00791	.00742	.00787	.00696	.00803	.00689	.00291	.00433	.00827	.0014	.0	
.00038	.00038	.00037	.00037	.00046	.00046	.00045	.00045	.00049	.00046	.00047	.00064	.00062	.00048	.00033	.00054	.00054	.00054	.0	
.00397	.00141	.00270	.00113	.00110	.00262	.00236	.00224	.00275	.00154	.00207	.00451	.00212	.00220	.00422	.00433	.00814	.0016	.0	
.00232	.00004	.00165	.00176	.00740	.00124	.00213	.00213	.00215	.00234	.00225	.00225	.00214	.00277	.00171	.00226	.00223	.0016	.0	
.00148	.00427	.00231	.00223	.00226	.00212	.00224	.00218	.00278	.00282	.00276	.00225	.00212	.00262	.00263	.00083	.00078	.00078	.0	
.00041	.00082	.00056	.00054	.00064	.00061	.00076	.00082	.00076	.00076	.00051	.00064	.00048	.00027	.00027	.00027	.00078	.00078	.0	
.00227	.00642	.00678	.01483	.01388	.00268	.00092	.00533	.00685	.00707	.01041	.00700	.00622	.01048	.00685	.01160	.00685	.00685	.0	
.00038	.00041	.00142	.00184	.00184	.00077	.00080	.00070	.00068	.00043	.00058	.00068	.00067	.00064	.00388	.00322	.00322	.00322	.0	
.00017	.00019	.00055	.00332	.00179	.00088	.00081	.00082	.00088	.00089	.00082	.00087	.00087	.00082	.00088	.00104	.00104	.00104	.0	
.00006	.00015	.00139	.00124	.00085	.00028	.00100	.00089	.00206	.00115	.00086	.00037	.00112	.00246	.00026	.00115	.00084	.00084	.0	
.00375	.02516	.01299	.01771	.02217	.01037	.01449	.00838	.01060	.00984	.00948	.01074	.01021	.01410	.01921	.02381	.02381	.02381	.0	
.00352	.02224	.00883	.01500	.01429	.00739	.00794	.00638	.00877	.00844	.00825	.00748	.00748	.00748	.00738	.00738	.00738	.00738	.0	
.01611	.03890	.01906	.01220	.01226	.01176	.01475	.01146	.01240	.01115	.01183	.01130	.01202	.01389	.01283	.02277	.02277	.02277	.0	
.03520	.03520	.02219	.01671	.01630	.01735	.02451	.01021	.02221	.01747	.01883	.01970	.01477	.01336	.02785	.03870	.0	27		
.01755	.00317	.00693	.01945	.00646	.00610	.00853	.00607	.01067	.00736	.00817	.00642	.00450	.00119	.01281	.02287	.02287	.02287	.0	
.01822	.02239	.00214	.00203	.00213	.00187	.00182	.00139	.00148	.00146	.00201	.00182	.00182	.00182	.00182	.00392	.00392	.00392	.0	
.00173	.03344	.01265	.00837	.00837	.00217	.00724	.00304	.00342	.00246	.00230	.00165	.00165	.00165	.00165	.01388	.01388	.01388	.0	
.01638	.01637	.01674	.01838	.01607	.01474	.01881	.01388	.01457	.01384	.01679	.01112	.00864	.01488	.01488	.01488	.01488	.01488	.0	
.00228	.00758	.00795	.01461	.01704	.01740	.02390	.02376	.02391	.01890	.02146	.01804	.02098	.02722	.02286	.02286	.02286	.02286	.0	
.00022	.00031	.00034	.00037	.00069	.00038	.00064	.00064	.00088	.00088	.00150	.00093	.00093	.00147	.00147	.00057	.00057	.00057	.0	
.00118	.00017	.00027	.00027	.00029	.00142	.00020	.00028	.00024	.00027	.00024	.00028	.00028	.00022	.00022	.00022	.00022	.00022	.0	
.00084	.00065	.00067	.00149	.00215	.00136	.00137	.00127	.00122	.00109	.00167	.00119	.00119	.00378	.00347	.00347	.00347	.00347	.0	
.00663	.00665	.00704	.00777	.01249	.01418	.00968	.00811	.00884	.00848	.00778	.01455	.01885	.00799	.01457	.01407	.01403	.01403	.0	
.03726	.03726	.03082	.03690	.02527	.10774	.04683	.02854	.02030	.00667	.17473	.12841	.18887	.04423	.11611	.11775	.15410	.15410	.0	
1.55275	.04845	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.14865	.0	
1.00655	1.00597	.02977	.05058	.00150	.00082	.00122	.00087	.00106	.00090	.00689	.00688	.00705	.00177	.00116	.02300	.0	30	0	
.00178	.02271	.01274	.00940	.00970	.00730	.00730	.00730	.00730	.00730	.00730	.00730	.00730	.00730	.00730	.00730	.00730	.00730	.0	
.00714	.02527	.02564	.02309	.03401	.03917	.02212	.03485	.03485	.03485	.03485	.03485	.03485	.03485	.03485	.03485	.03485	.03485	.0	
.01210	.01666	.03310	.02672	.03119	.02619	.03286	.03684	.04091	.04091	.04091	.04091	.04091	.04091	.04091	.04091	.04091	.04091	.0	
.00507	.00182	.00443	.00619	.02026	1.00384	.04581	.03795	.02034	.02032	.01534	.01534	.01534	.01534	.01534	.01534	.01534	.01534	.01534	.0
.00041	.00112	.00125	.00233	.00143	.00143	.00121	.00121	.00121	.00121	.00121	.00121	.00121	.00121	.00121	.00121	.00121	.00121	.0	
.00322	.00200	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.00454	.0	
.00110	.00078	.00115	.00283	.00164	.00178	.00898	.00898	.00413	.01268	.00848	.00760	.01147	.1.03033	.00800	.00134	.01183	.01183	.0	
.00682	.00681	.00778	.00338	.00338	.00231	.00251	.00251	.00288	.01387	.00905	.00851	.01047	.00818	.00811	.00811	.00811	.00811	.0	
.00654	.00675	.00531	.01116	.01218	.01218	.01222	.01222	.01277	.01277	.01277	.01277	.01277	.01277	.01277	.01277	.01277	.01277	.0	
.00124	.00768	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.00568	.0	
.00125	.00624	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.00581	.0	
.00063	.00116	.00319	.00353	.00728	.00728	.00728	.00728	.00728	.00728	.00728	.00728	.00728	.00728	.00728	.00728	.00728	.00728	.0	
.00149	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.00286	.0	
.00663	.00196	.00198	.00287	.00277	.00277	.0027													

Table 3.—Total Requirements (Direct and Indirect) Per

(Product's price)

Industry No.	Each entry represents the output required, directly and indirectly, from the industry named at the beginning of the row for each dollar of delivery to final demand by the industry named at the head of the column.									
	Electric lighting and wiring equipment	Radio, television and communication equipment	Electrical apparatus and accessories	Miscellaneous electrical machinery, equip- ment and supplies	Motor vehicles and equipment	Aircraft and parts	Other transporta- tion equipment	Petroleum and petro- chemical instruments	Optical, ophthalmic and photographic equipment	Miscellaneous manu- facturing
	44	45	47	48	49	50	61	62	63	64
1 Livestock & Livestock Products	0.00371	0.00320	0.00284	0.00228	0.00328	0.00318	0.00444	0.00394	0.00348	0.00322
2 Other Agricultural Products	0.00313	0.00417	0.00333	0.00332	0.00444	0.00322	0.00494	0.00468	0.00351	0.01063
3 Forestry & Fishery Products	0.00363	0.00380	0.00377	0.00362	0.00368	0.00368	0.00428	0.00363	0.00378	0.01445
4 Agricultural, Forestry & Fishery Services	0.00333	0.00332	0.00335	0.00362	0.00368	0.00327	0.00360	0.00365	0.00421	0.00322
5 Iron & Ferrous Alloy Ore Mining	0.07397	0.00219	0.00318	0.00412	0.01771	0.00328	0.11865	0.00381	0.01381	0.00223
6 Nonferrous Metal Ore Mining	0.12000	0.00238	0.07288	0.16583	0.00640	0.00360	0.00690	0.00617	0.00617	0.00268
7 Coal Mining	0.00682	0.00221	0.00318	0.00362	0.00762	0.00293	0.00738	0.00621	0.00608	0.00266
8 Crude Petroleum & Natural Gas	0.12600	0.00066	0.00111	0.00144	0.00542	0.00787	0.00598	0.00728	0.00738	0.00237
9 Stone and Clay Mining and Quarrying	0.00364	0.00104	0.00233	0.00204	0.00114	0.00126	0.00213	0.01165	0.00145	0.00162
10 Chemical & Fertilizer Mineral Mining	0.00124	0.00084	0.00135	0.00189	0.00093	0.00058	0.00087	0.00001	0.00267	0.00180
11 New Construction										
12 Maintenance & Repair Construction	0.01096	0.00417	0.01115	0.00890	0.01230	0.00207	0.12885	0.01089	0.00925	0.01206
13 Ordnance & Accessories	0.00600	0.01085	0.00115	0.00171	0.00128	0.00368	0.00097	0.00358	0.00386	0.00233
14 Food & Kindred Products	0.00915	0.00443	0.00237	0.00347	0.00505	0.00065	0.00393	0.01655	0.00615	0.01256
15 Tobacco Manufacture	0.00004	0.00036	0.00068	0.00049	0.00045	0.00009		0.00050	0.00048	0.00020
16 Broad & Narrow Fabrics, Yarn & Thread Mills	0.00426	0.00228	0.00259	0.00287	0.00488	0.00722	0.00157	0.02891	0.00281	0.02224
17 Miscellaneous Textile Goods & Floor Coverings	0.00582	0.00203	0.00268	0.00243	0.00543	0.00177	0.00182	0.01442	0.00154	0.01528
18 Apparel	0.00336	0.00112	0.00274	0.00218	0.00345	0.00248	0.00291	0.00224	0.00160	0.00418
19 Miscellaneous Fabricated Textile Products	0.00068	0.00064	0.00044	0.00098	0.00066	0.00036	0.00321	0.00062	0.00441	0.00206
20 Lumber & Wood Products, Except Containers	0.00774	0.00796	0.00705	0.00445	0.00685	0.00497	0.04337	0.00754	0.00648	0.01776
21 Wooden Containers	0.00066	0.00085	0.00059	0.00094	0.00065	0.00062	0.00068	0.00085	0.00027	0.00082
22 Household Furniture	0.00069	0.01735	0.00124	0.00085	0.00042	0.00118	0.00005	0.00229	0.00084	0.00060
23 Other Furniture or Fixtures	0.00143	0.00127	0.00114	0.00099	0.00222	0.00244	0.00144	0.00221	0.00113	0.00113
24 Paper & Allied Products, Except Containers	0.00076	0.01564	0.00123	0.00178	0.00194	0.00053	0.01362	0.01246	0.00194	0.00144
25 Paperboard Containers & Boxes	0.02311	0.00779	0.01261	0.01338	0.00607	0.00581	0.00601	0.01145	0.01227	0.02300
26 Printing & Publishing	0.01243	0.01068	0.01367	0.01082	0.01445	0.01229	0.01414	0.01452	0.01452	0.02487
27 Chemicals & Selected Chemical Products	0.00097	0.01922	0.00101	0.00101	0.00092	0.00056	0.00054	0.02002	0.00488	0.01942
28 Plastics & Synthetic Materials	0.02258	0.01150	0.01069	0.01055	0.01466	0.00738	0.01353	0.01375	0.01796	0.01797
29 Drugs, Cleaning & Toilets Preparations	0.00173	0.00186	0.00182	0.00178	0.00116	0.00148	0.00153	0.00081	0.00244	0.00387
30 Paints & Allied Products	0.00783	0.00218	0.00300	0.00312	0.00341	0.00260	0.00782	0.00323	0.00187	0.00388
31 Petroleum Refining & Related Industries	0.02257	0.00885	0.01371	0.01312	0.01388	0.01178	0.01458	0.01398	0.00860	0.01610
32 Rubber & Miscellaneous Plastic Products	0.00032	0.01111	0.00779	0.01215	0.00538	0.00448	0.00285	0.00785	0.01295	0.00547
33 Leather Tanning & Industrial Leather Products	0.00026	0.00222	0.00023	0.00028	0.00031	0.00026	0.00043	0.00070	0.00064	0.00438
34 Footwear & Other Leather Products	0.00024	0.00227	0.00028	0.00028	0.00029	0.00027	0.00028	0.00104	0.00090	0.00511
35 Glass & Glass Products	0.01185	0.00464	0.00822	0.00822	0.01608	0.00198	0.00579	0.00230	0.01110	0.00632
36 Stone & Clay Products	0.12727	0.00437	0.01294	0.01288	0.00838	0.00719	0.00899	0.00875	0.00831	0.00793
37 Primary Iron & Steel Manufacturing	0.12101	0.00482	0.01265	0.01265	0.00881	0.00716	0.00811	0.00816	0.00811	0.00811
38 Primary Nonferrous Metal Manufacturing	0.03448	0.00389	0.00324	0.00288	0.00478	0.00419	0.00268	0.00473	0.00401	0.00442
39 Metal Containers	0.00155	0.00083	0.00123	0.00115	0.00145	0.00063	0.00127	0.00114	0.00105	0.00220
40 Heating, Plumbing & Structural Metal Products	0.00040	0.00178	0.00023	0.00227	0.00192	0.00118	0.00179	0.00230	0.00110	0.00220
41 Stamping, Screw Machine Products & Bolts	0.00411	0.00273	0.00264	0.00278	0.00288	0.00288	0.01502	0.02584	0.01114	0.01324
42 Other Fabricated Metal Products	0.00034	0.02115	0.00267	0.00268	0.00508	0.00280	0.02780	0.04279	0.01214	0.04832
43 Engines & Turbines	0.00165	0.00119	0.00141	0.00194	0.00564	0.00442	0.00595	0.00168	0.00107	0.00107
44 Farm Machinery & Equipment	0.00093	0.00066	0.00063	0.00066	0.01198	0.00058	0.00760	0.00663	0.00442	0.00463
45 Construction, Mining & Oil Field Machinery	0.00137	0.00073	0.00065	0.00065	0.00289	0.00177	0.00170	0.00140	0.00068	0.00088
46 Material Handling Machinery & Equipment	0.00073	0.00068	0.00272	0.00082	0.00437	0.00157	0.00168	0.00164	0.00079	0.00144
47 Metalworking Machinery & Equipment	0.01278	0.01449	0.01466	0.01478	0.02111	0.01440	0.01225	0.02011	0.01113	0.02235
48 Special Industry Machinery & Equipment	0.00083	0.00442	0.01188	0.01765	0.02091	0.01878	0.02277	0.01888	0.01888	0.02197
49 General Industrial Machinery & Equipment	0.00093	0.00565	0.01269	0.01489	0.01769	0.01383	0.00710	0.01070	0.00231	0.00742
50 Machine Shop Products	0.00041	0.00681	0.00558	0.00628	0.02188	0.01734	0.01694	0.01237	0.00313	0.01866
51 Office, Computing & Accounting Machines	0.00117	0.00411	0.00134	0.00116	0.00185	0.00161	0.00329	0.00182	0.00079	0.00460
52 Service Industry Machines	0.00049	0.00287	0.00246	0.00238	0.00340	0.00163	0.00478	0.00316	0.00316	0.01102
53 Electric Industrial Equipment & Apparatus	0.00017	0.00081	0.00118	0.00182	0.00382	0.00178	0.00495	0.01747	0.00681	0.00694
54 Household Appliances	0.00153	0.00248	0.00128	0.00169	0.00113	0.00068	0.00163	0.00144	0.00113	0.00428
55 Electric Lighting & Wiring Equipment	1.06316	0.01700	0.02222	0.01523	0.00623	0.00443	0.01648	0.00628	0.00375	
56 Radio, Television & Communication Equipment	0.00066	0.00339	0.00226	0.00264	0.00764	0.00157	0.00365	0.00220	0.00380	0.00253
57 Electronic Components & Accessories	0.01501	0.02361	0.00487	0.01908	0.00565	0.02118	0.00391	0.01724	0.01123	0.04411
58 Miscellaneous Electrical Machinery, Equipment & Supplies	0.00469	0.00814	0.00264	1.04013	0.01843	0.00456	0.00744	0.00233	0.00404	0.00098
59 Motor Vehicles & Equipment	0.00147	0.00483	0.00887	0.00688	1.00671	0.00738	0.02824	0.01773	0.00809	0.00469
60 Aircraft & Parts	0.00126	0.01194	0.00260	0.00227	0.00413	1.00882	0.00806	0.01794	0.00806	0.00800
61 Other Transportation Equipment	0.00106	0.00777	0.00684	0.00622	0.01246	0.01611	1.00417	0.00456	0.00603	0.00299
62 Scientific & Controlling Instruments	0.00482	0.00772	0.00778	0.01119	0.02223	0.02398	0.01949	1.01773	0.00503	0.02664
63 Optical, Ophthalmic & Photographic Equipment	0.00118	0.00384	0.00236	0.00233	0.00194	0.00477	0.00604	0.00321	1.00770	0.00748
64 Miscellaneous Manufacturing	0.00831	0.00337	0.00352	0.00312	0.00991	0.00236	0.00583	0.01114	0.00244	0.00733
65 Transportation & Warehousing	0.00493	0.00363	0.00344	0.00285	0.00742	0.00439	0.00641	0.00377	0.00434	0.00835
66 Communications; Except Radio & TV Broadcasting	0.00011	0.00208	0.00144	0.00039	0.00065	0.01527	0.01000	0.00561	0.01146	0.01187
67 Radio & TV Broadcasting	0.00265	0.00385	0.00227	0.00227	0.00357	0.02290	0.00364	0.00444	0.00316	0.00710
68 Electric, Gas, Water & Sanitary Services	0.00041	0.01923	0.02529	0.02480	0.02614	0.02045	0.02447	0.02447	0.02447	0.02473
69 Wholesale & Retail Trade	0.07441	0.01128	0.00812	0.01790	0.07244	0.06500	0.06333	0.06145	0.04603	0.07611
70 Finance & Insurance	0.01689	0.01350	0.01349	0.01349	0.01022	0.01396	0.01860	0.01864	0.01878	0.01775
71 Real Estate & Rental	0.07750	0.07757	0.02798	0.02233	0.01110	0.02181	0.02411	0.02656	0.02636	0.02405
72 Hotels; Personal & Repair Services exc. Auto.	0.00407	0.00418	0.00081	0.00081	0.00081	0.02121	0.00412	0.00578	0.00429	0.00453
73 Business Services	0.00058	0.01942	0.00469	0.00441	0.01381	0.00447	0.02820	0.01782	0.01072	0.00432
74 Automobile Repair & Services	0.0									

## SURVEY OF CURRENT BUSINESS

**Dollar of Delivery to Final Demand, 1963—Continued**

#### **[Read section 10(1)(a)]**